

FIG. 1

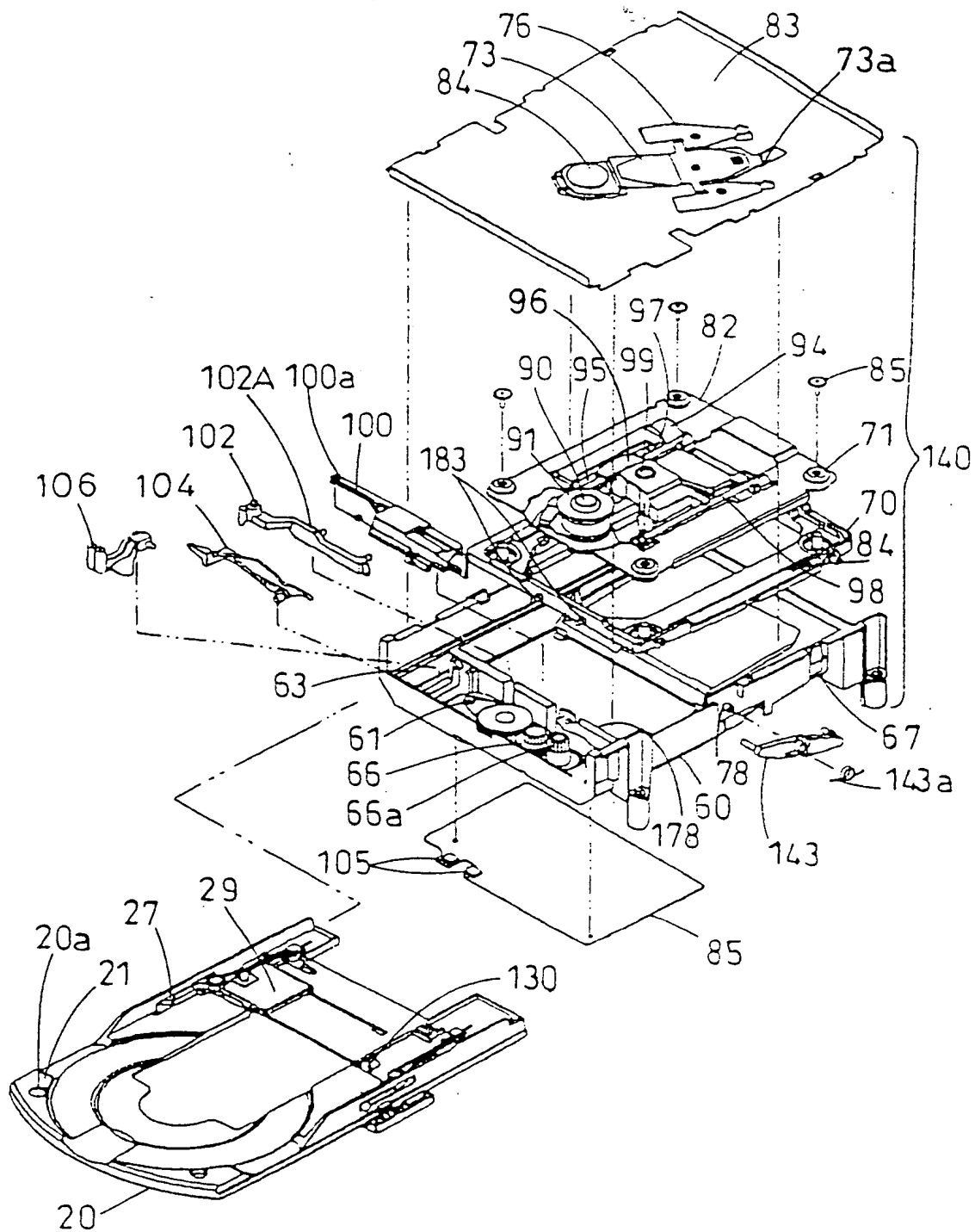


FIG. 2

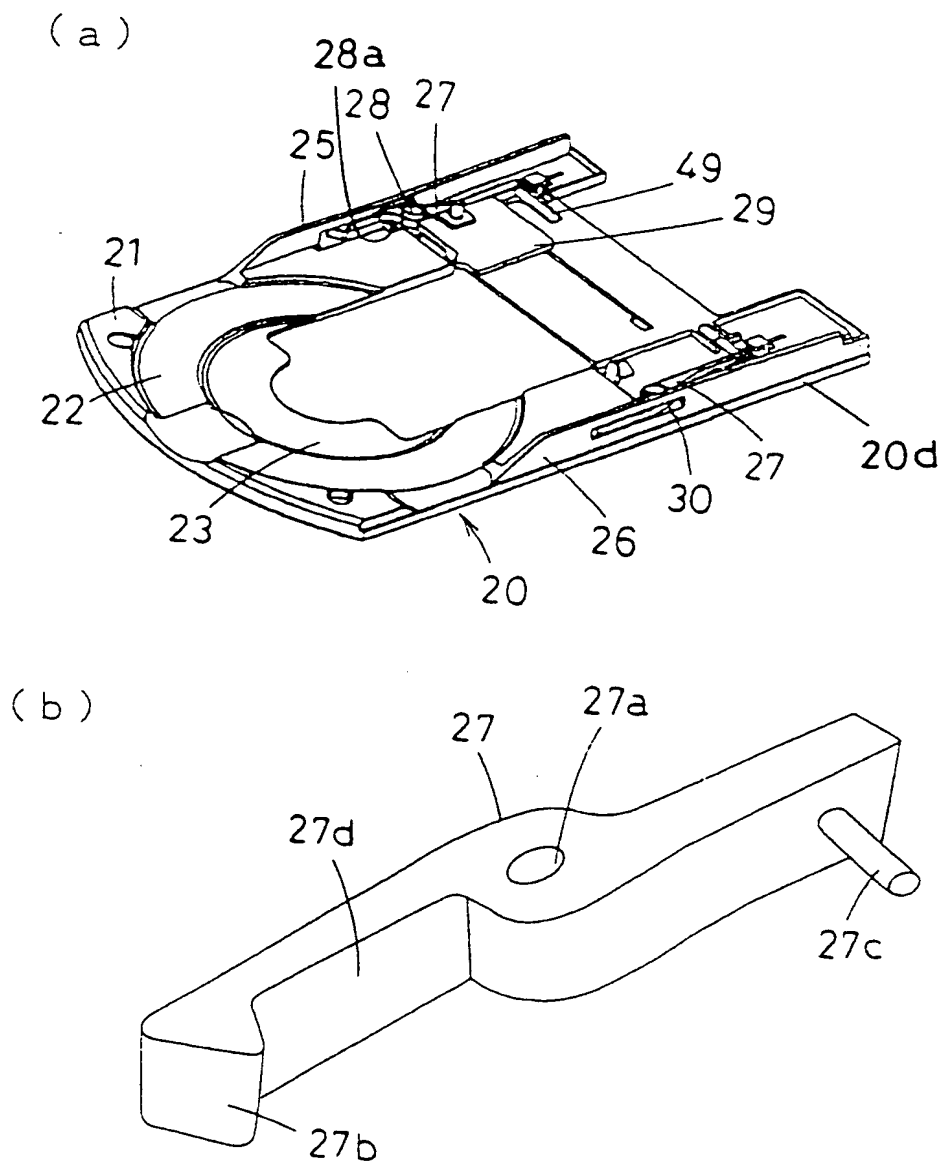


FIG. 3

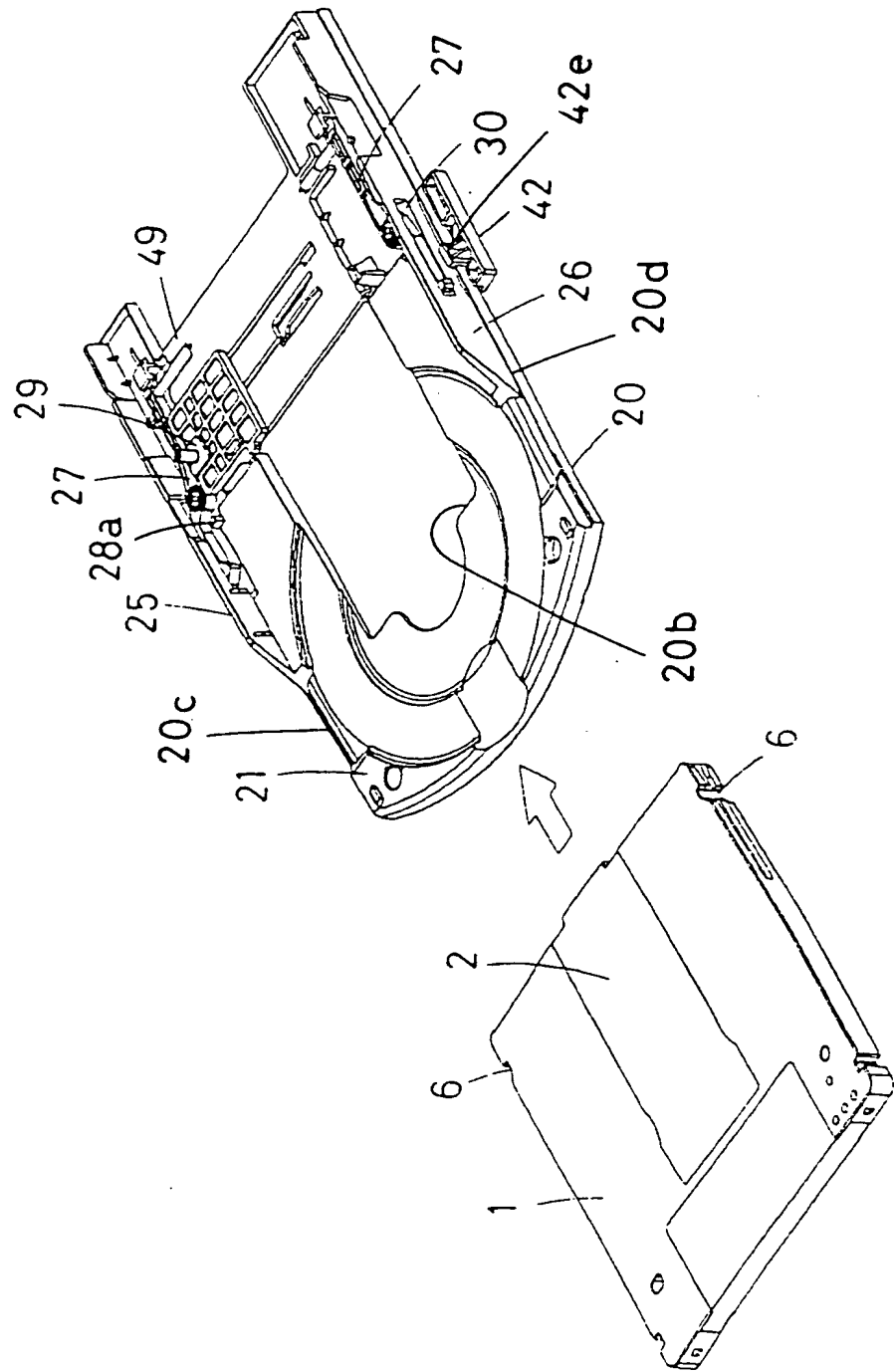


FIG. 4

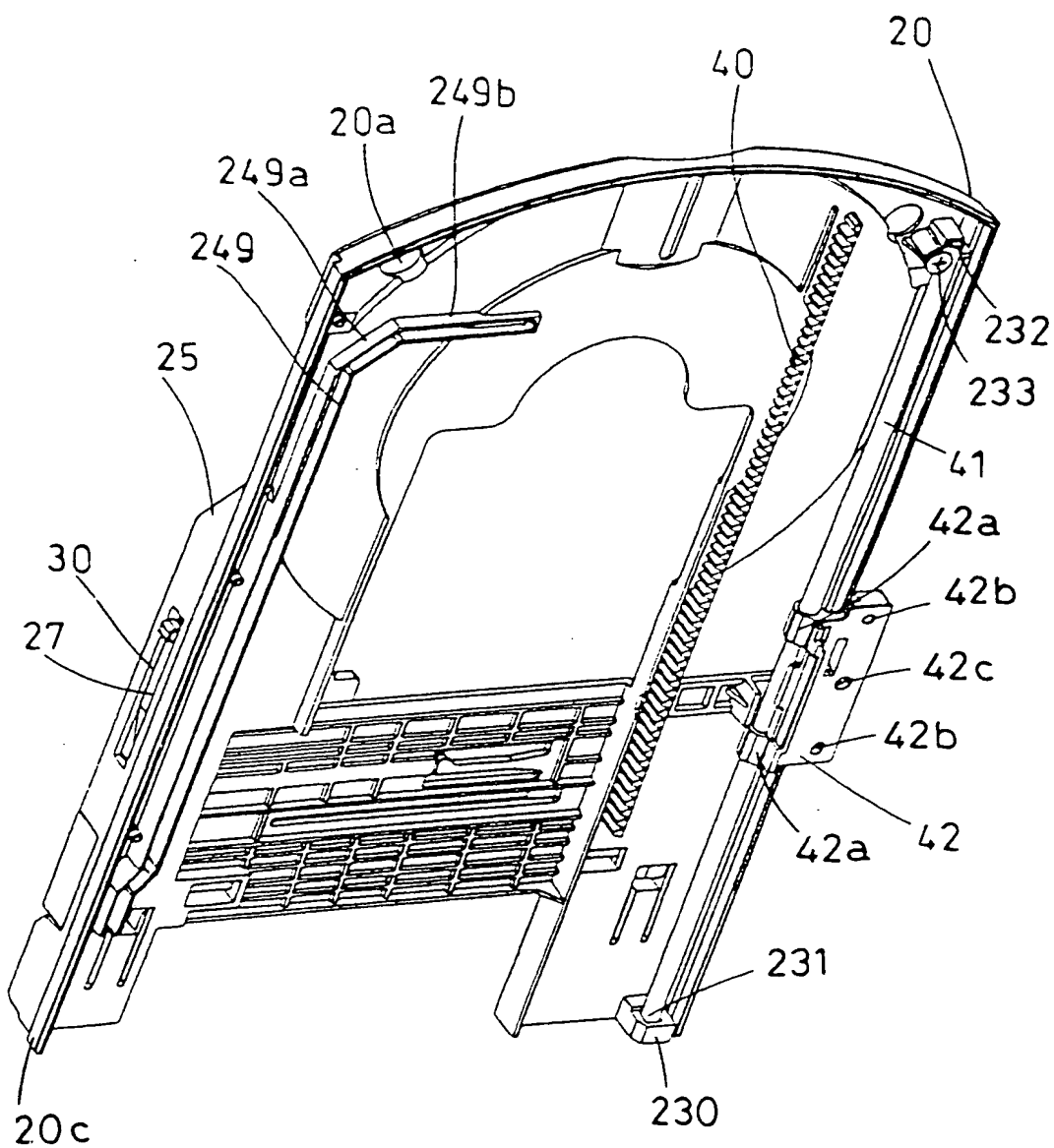


FIG. 5

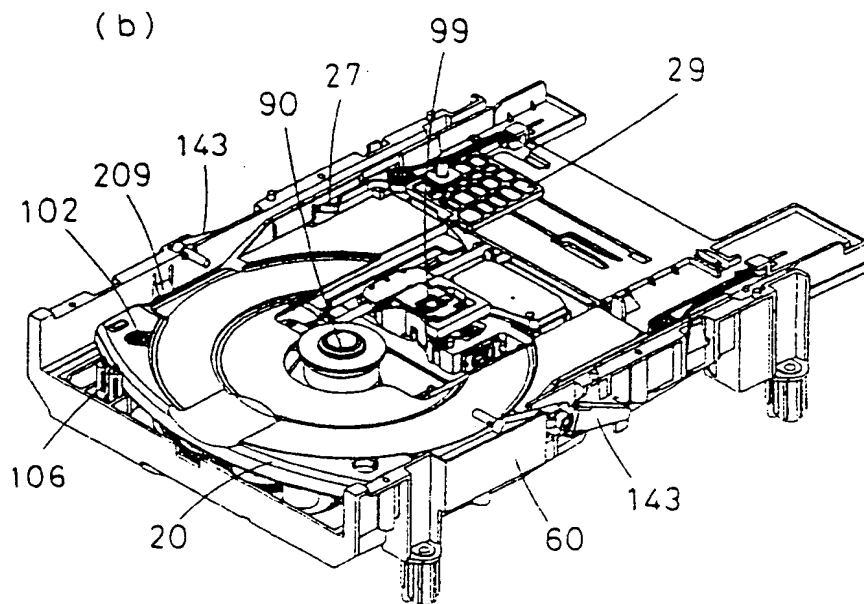
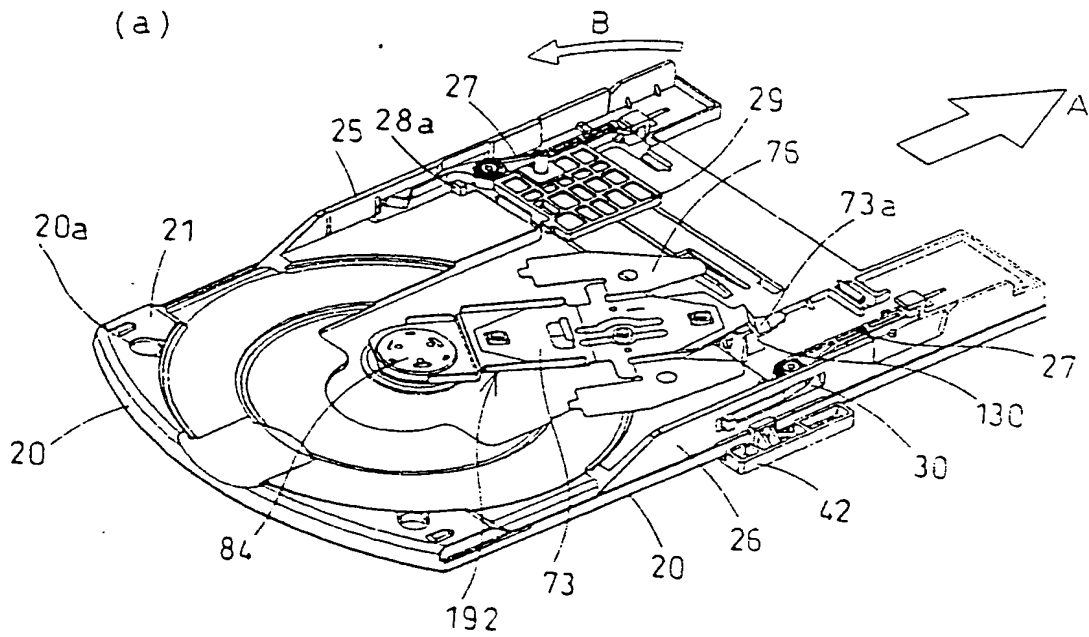


FIG. 6

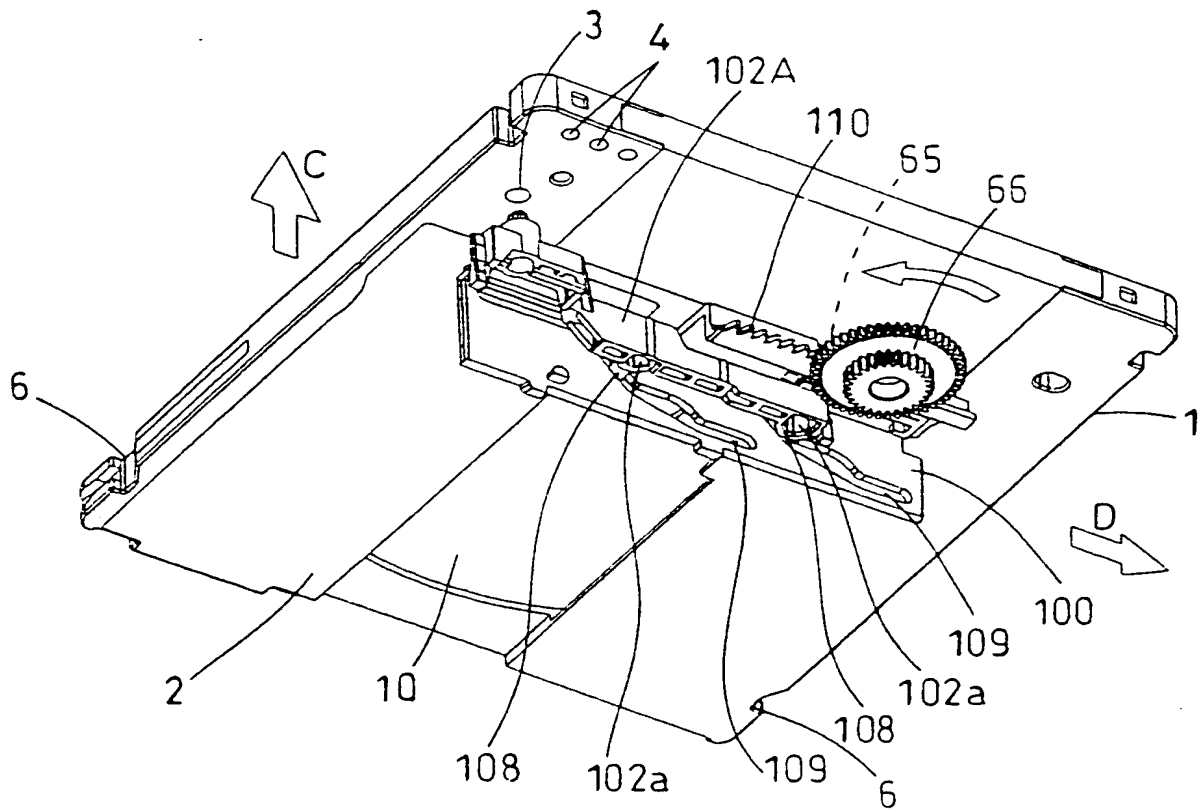
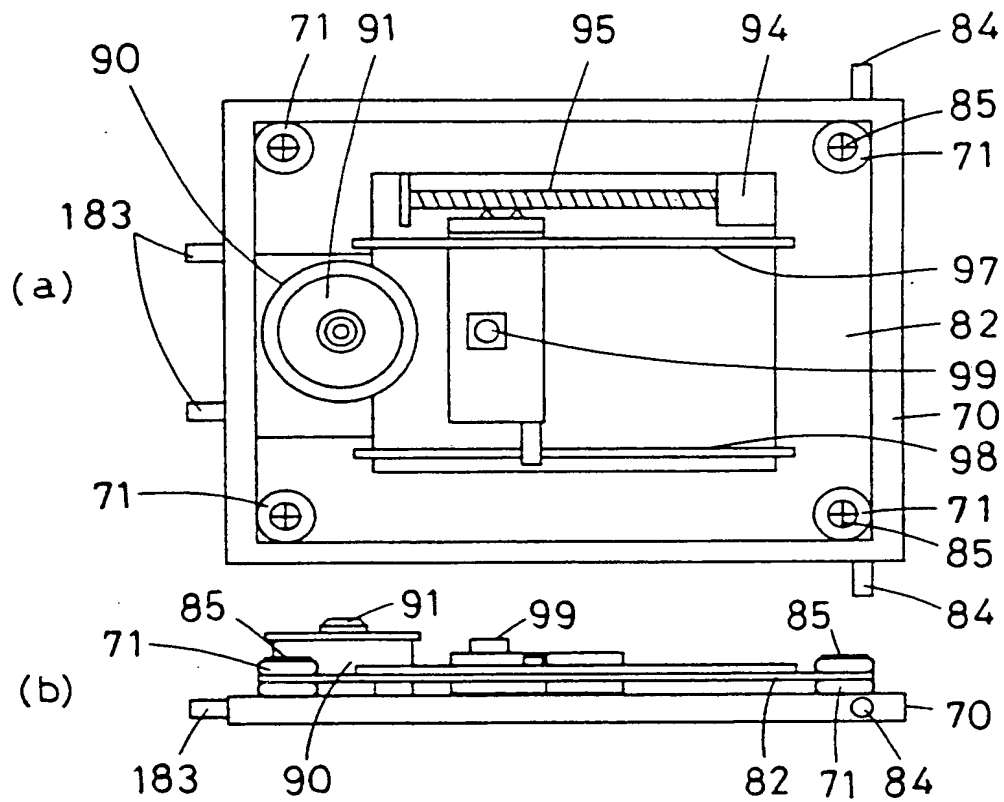
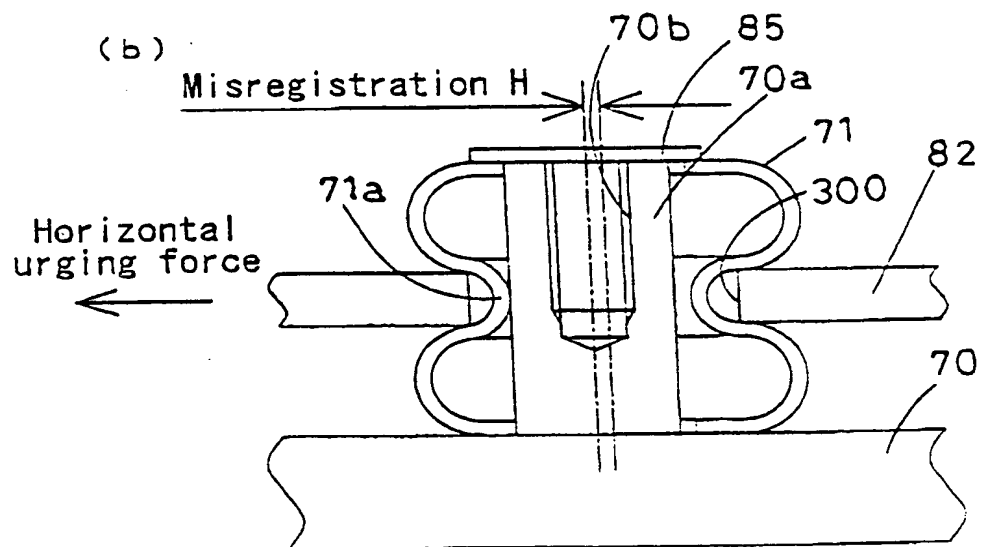


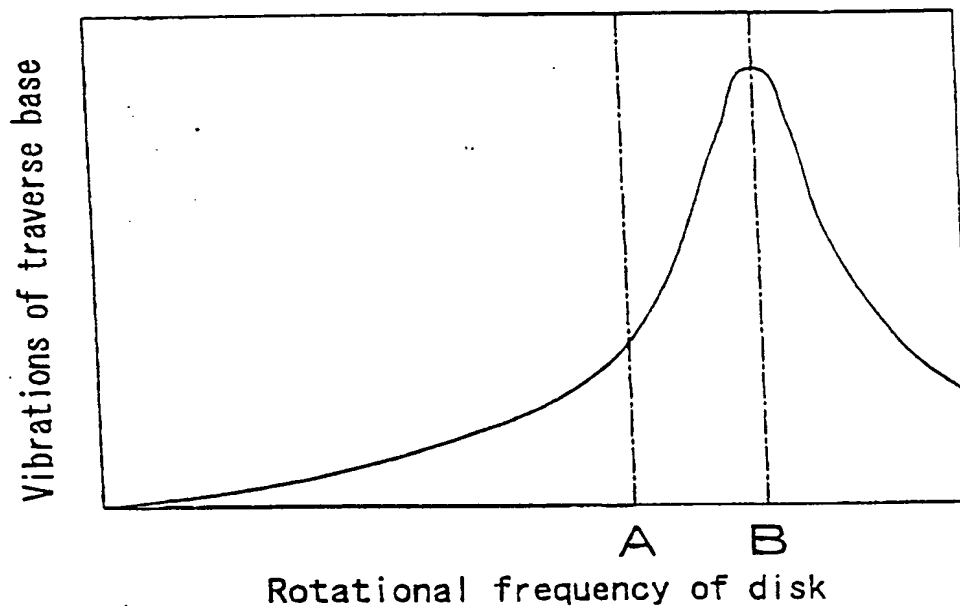
FIG. 7





9/70

F I G. 9



A : Maximum rotational frequency
B : Primary resonance frequency

FIG. 10

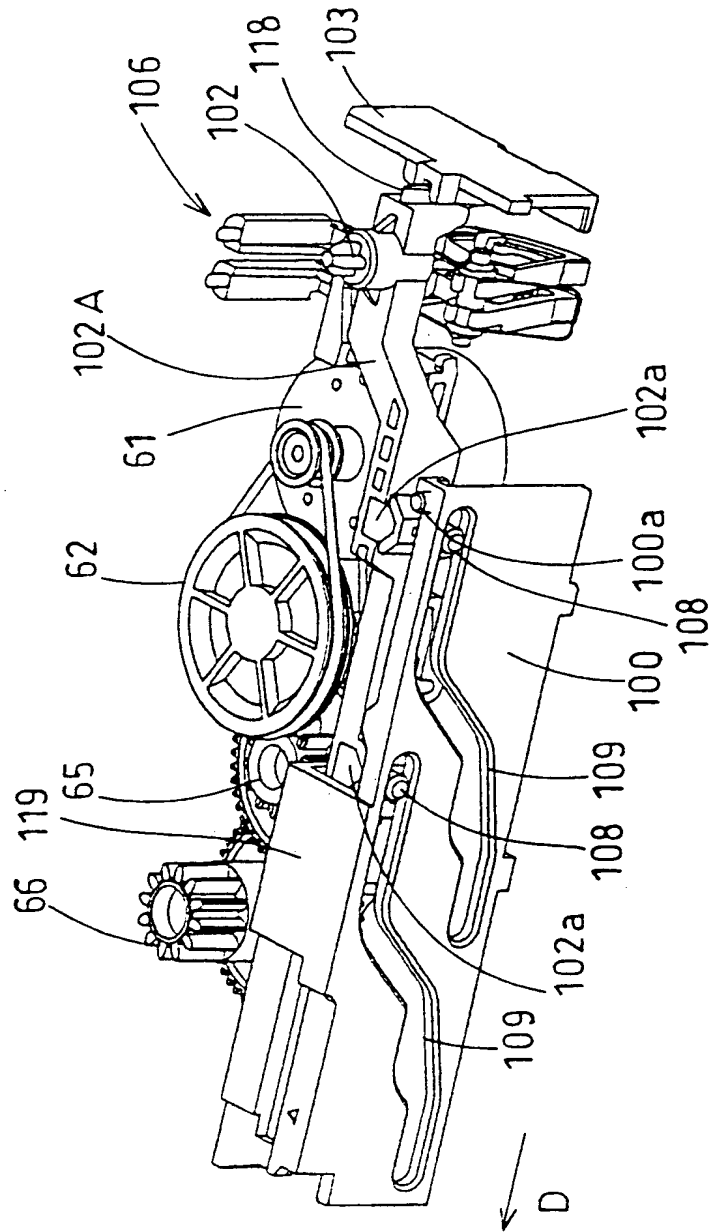


FIG. 11

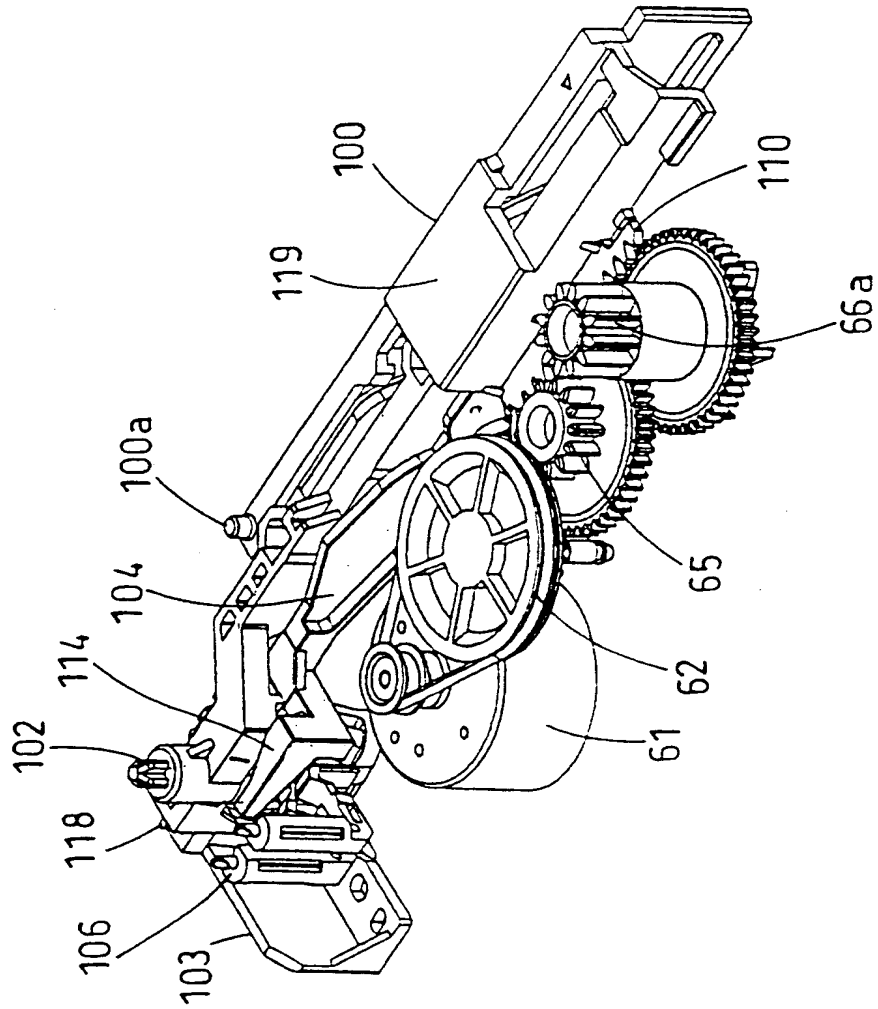


FIG. 1 2

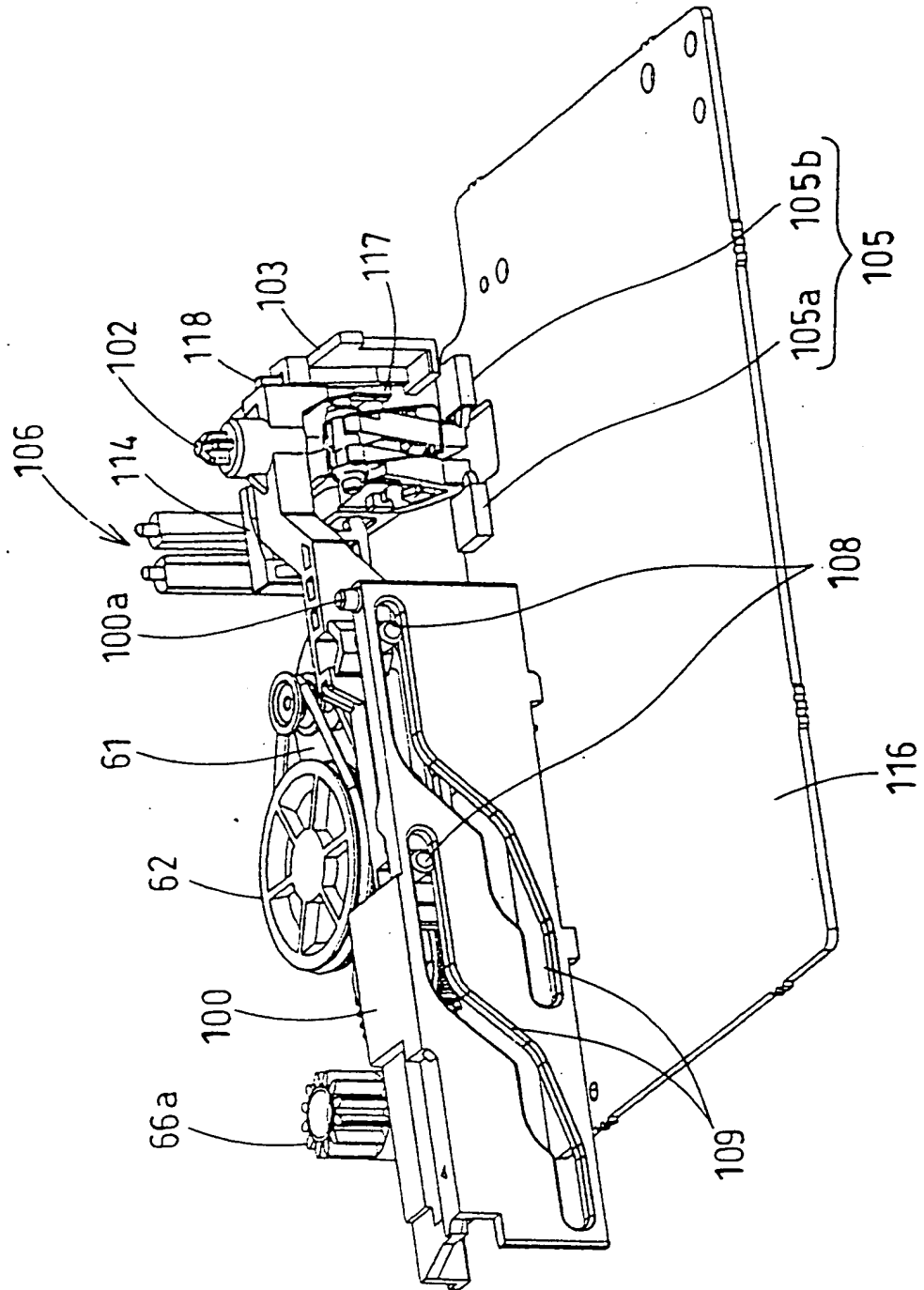


FIG. 1 3

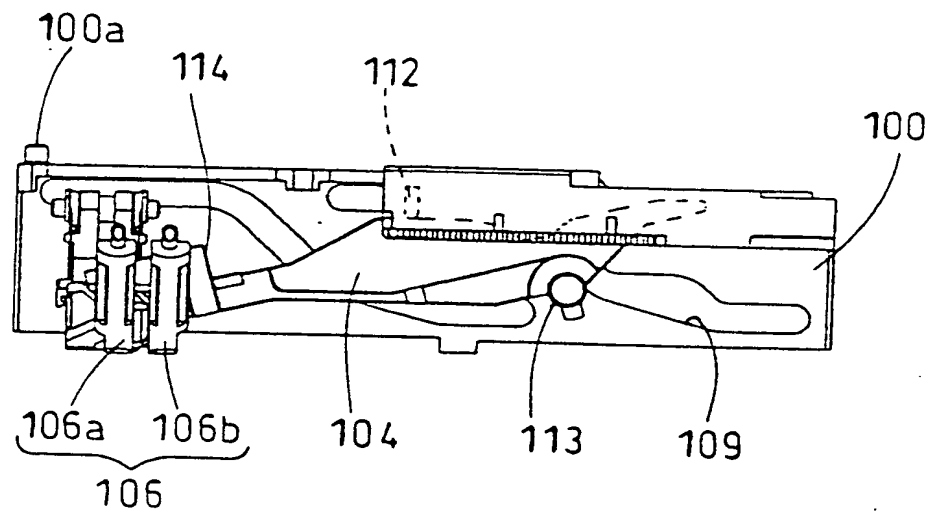


FIG. 1 4

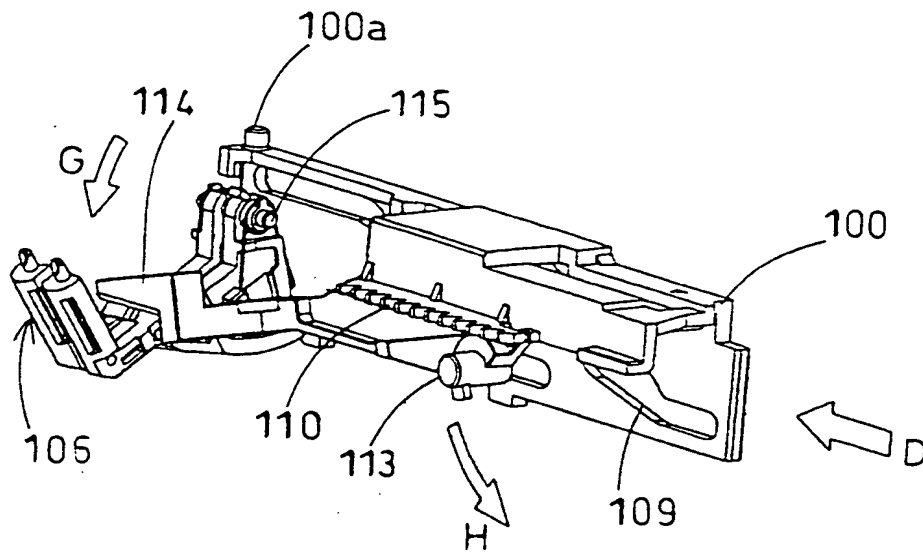


FIG. 1 5

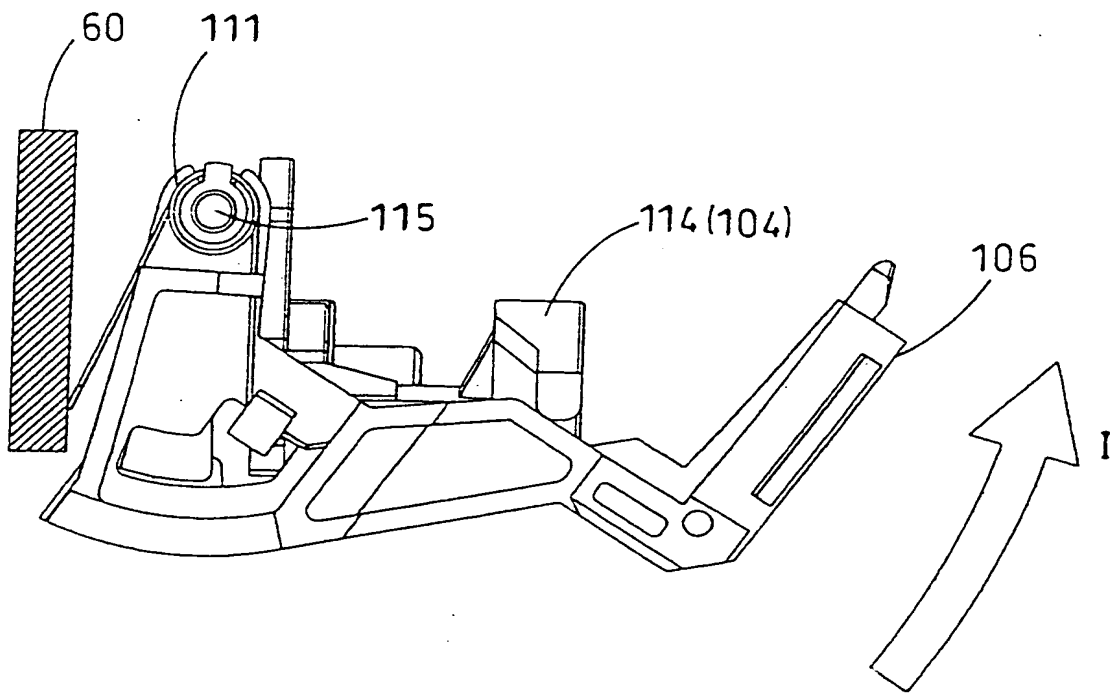


FIG. 16

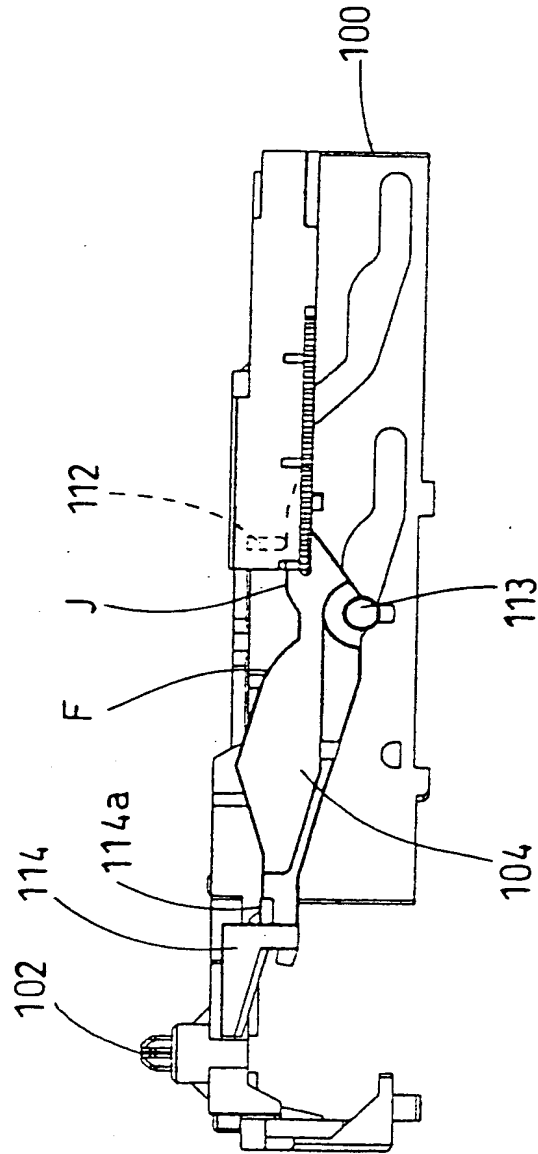


FIG. 17

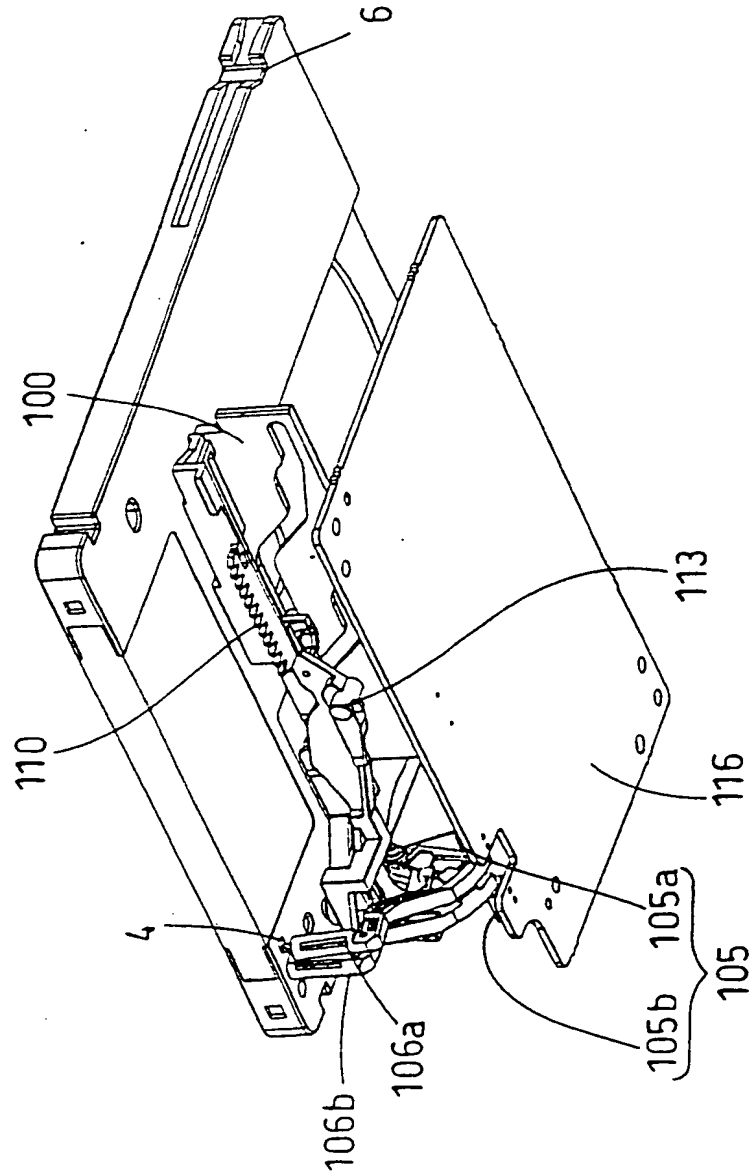


FIG. 18

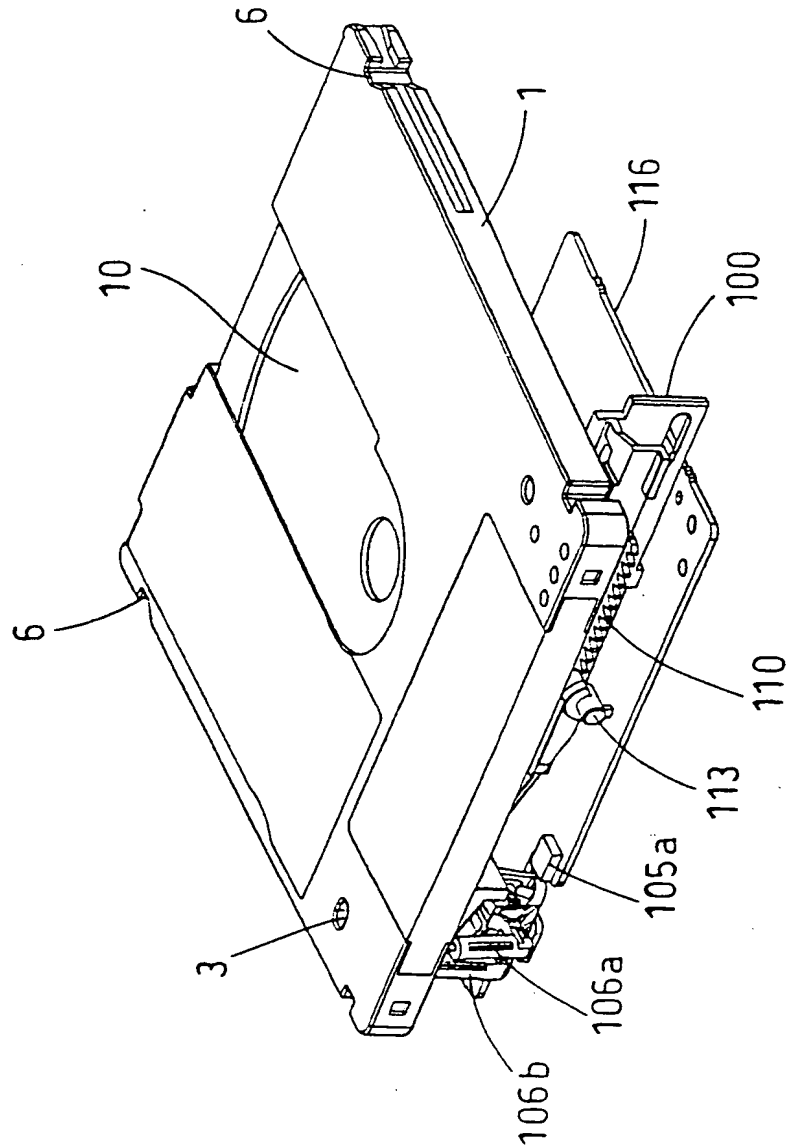


FIG. 19

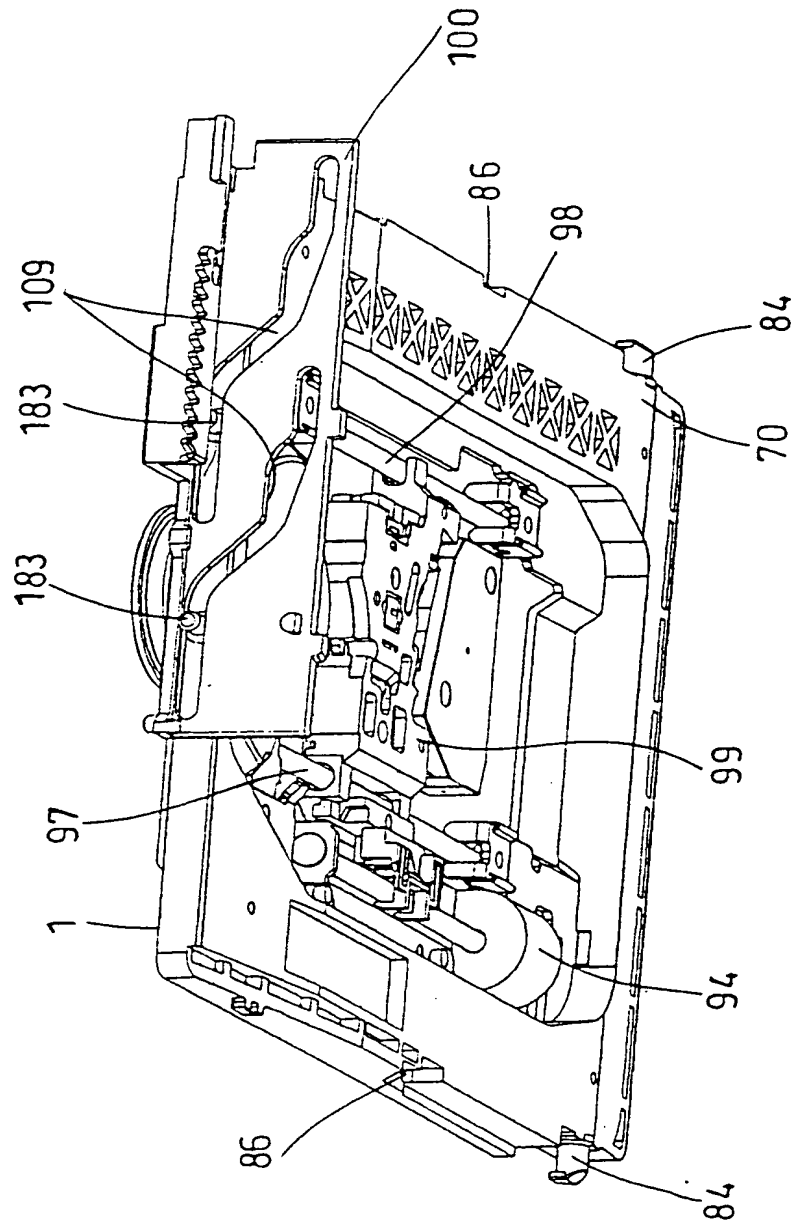


FIG. 20

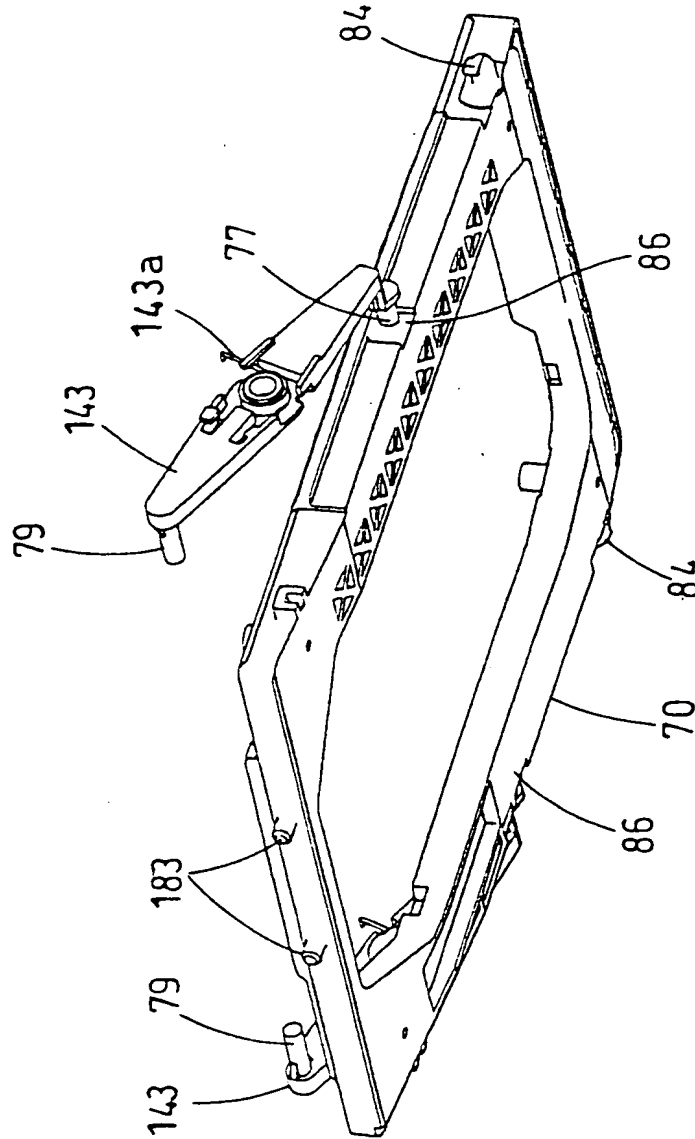


FIG. 2 1

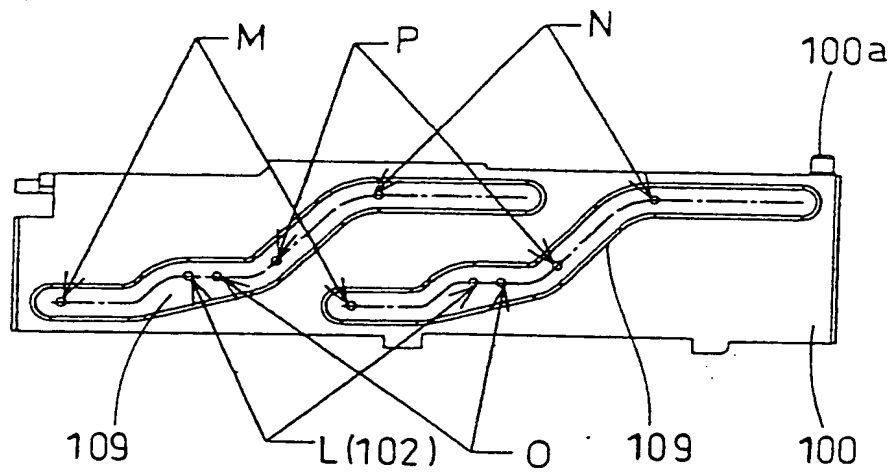


FIG. 2 2

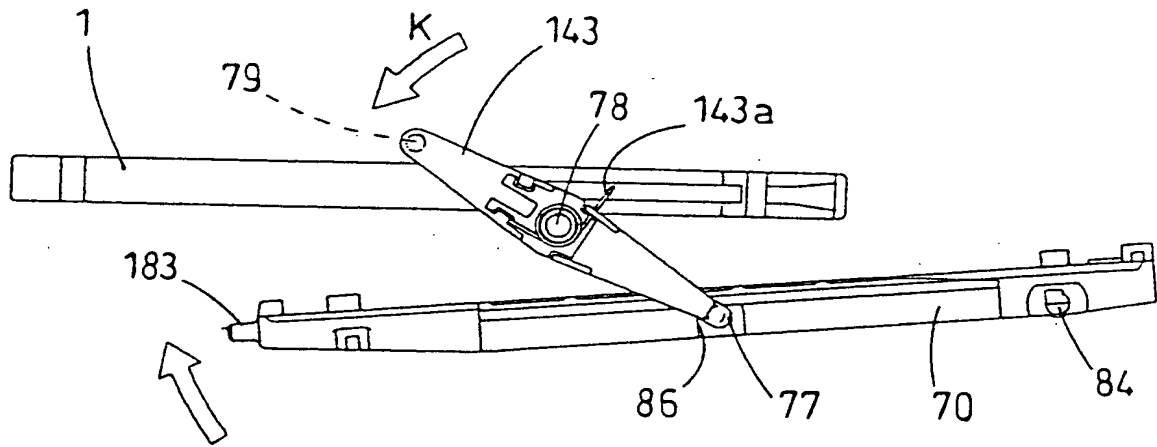


FIG. 2 3

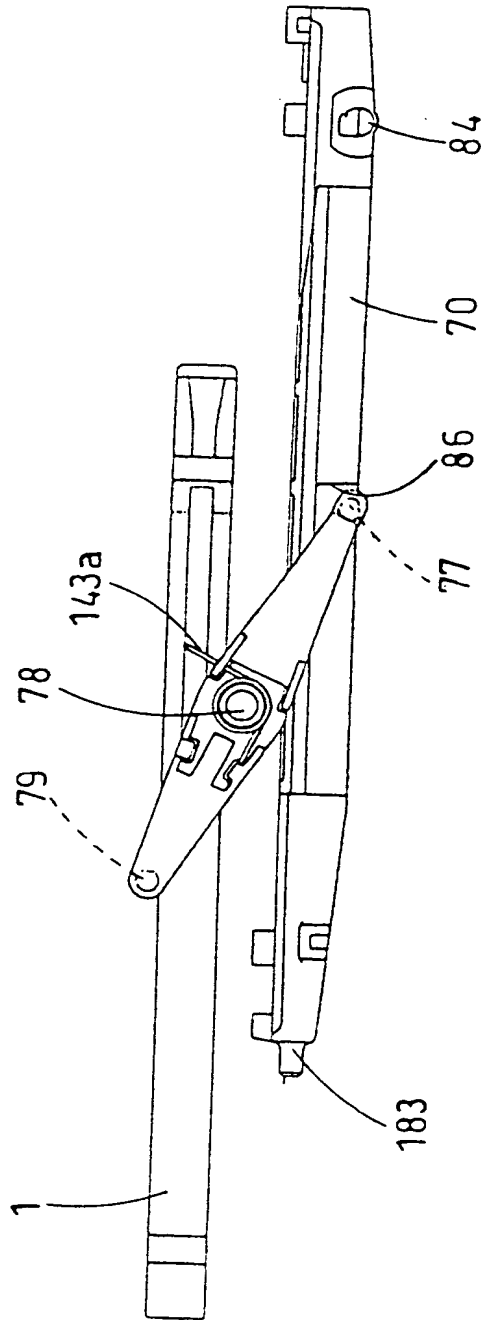
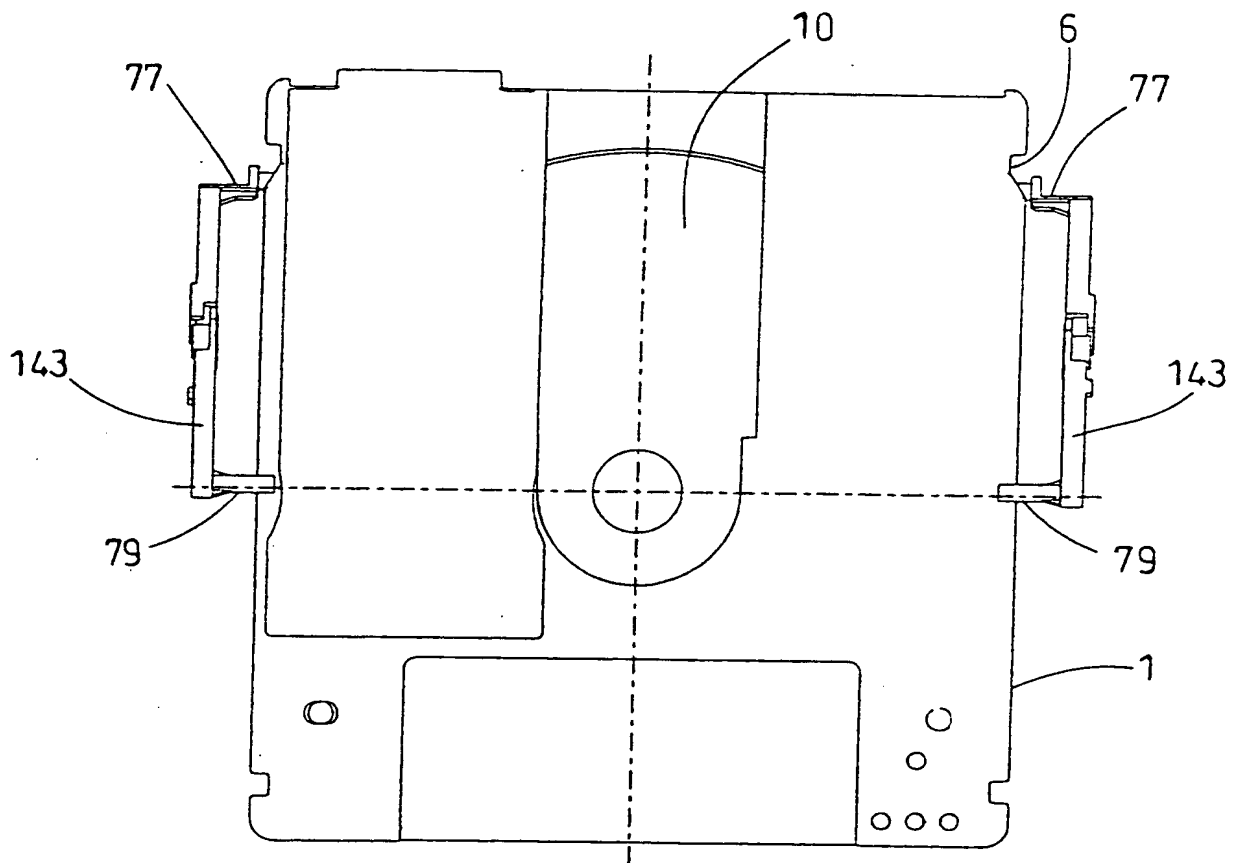


FIG. 2 4



25/70

FIG. 25

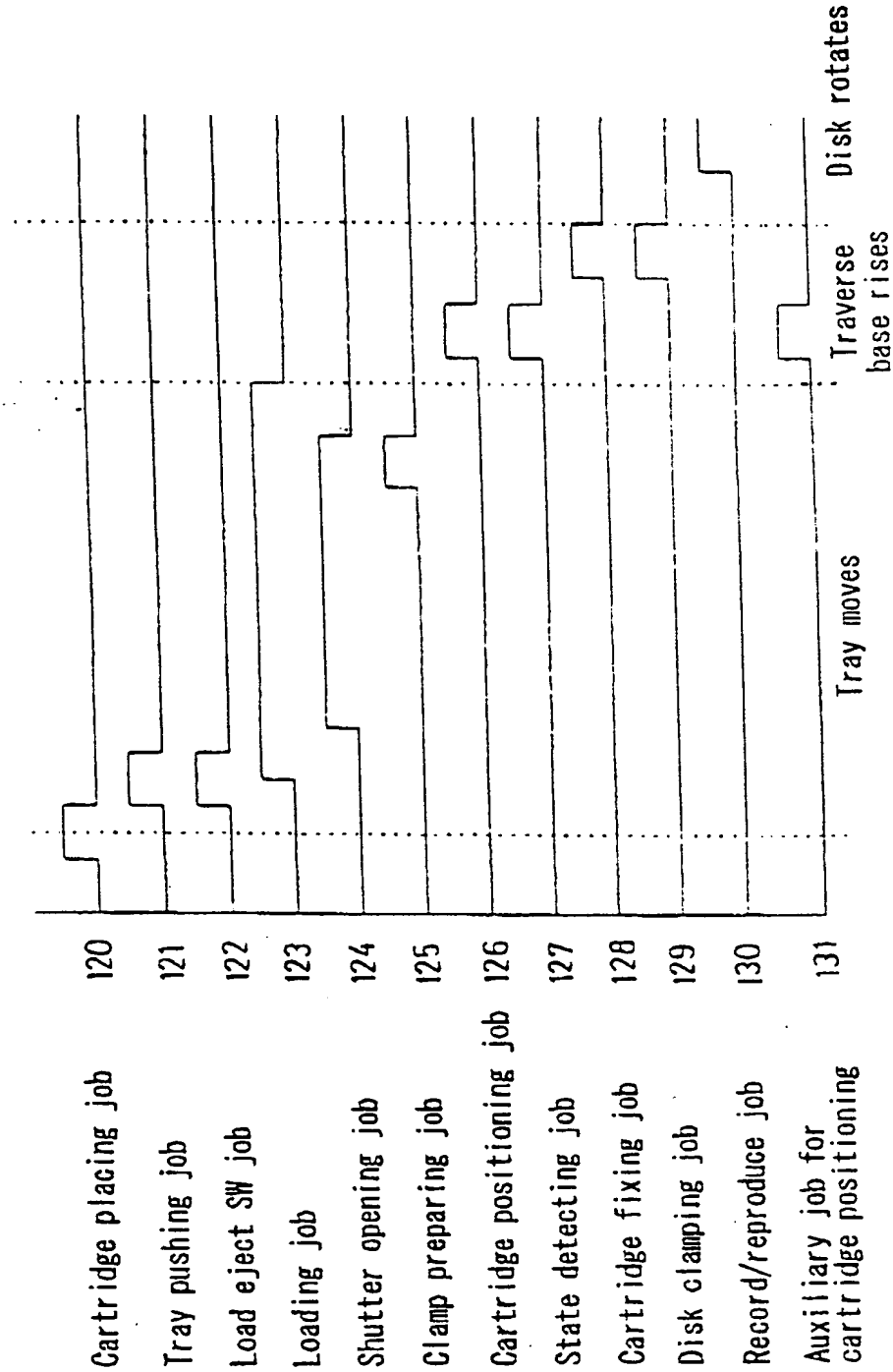


FIG. 26

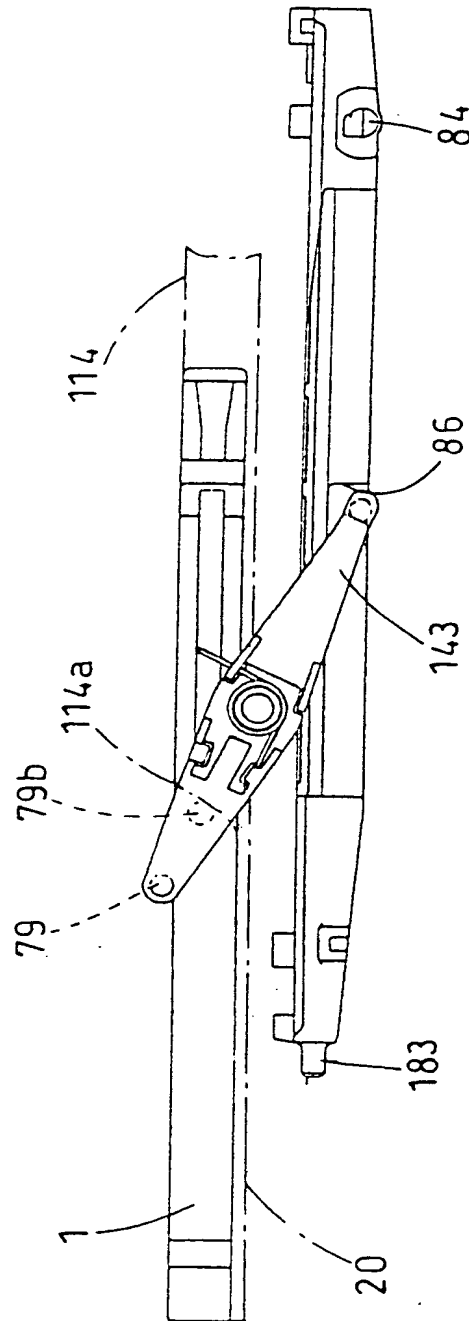


FIG. 2 7

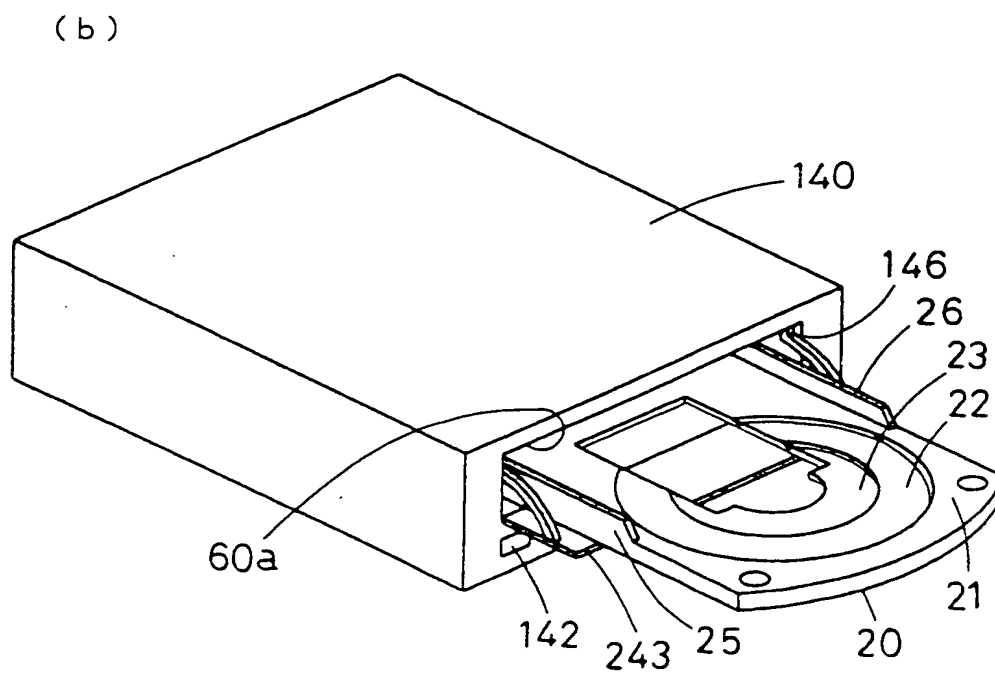
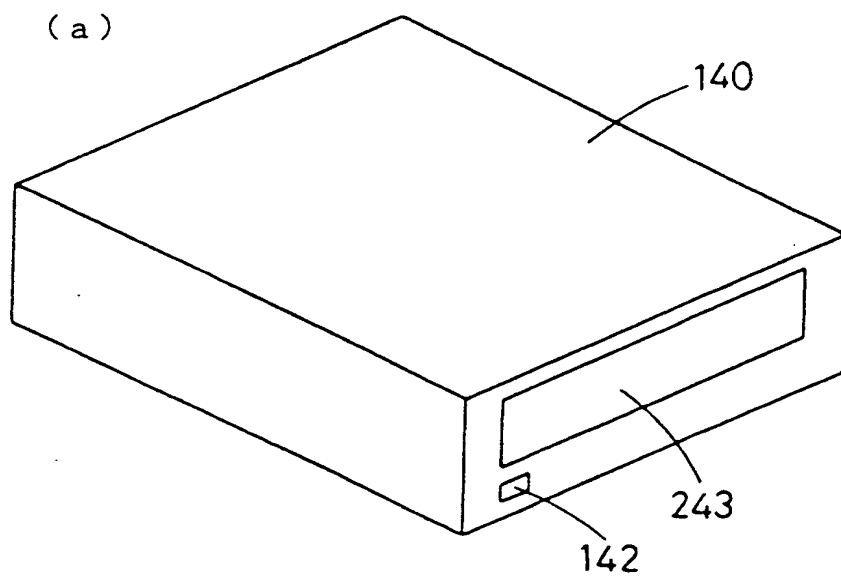


FIG. 2 8

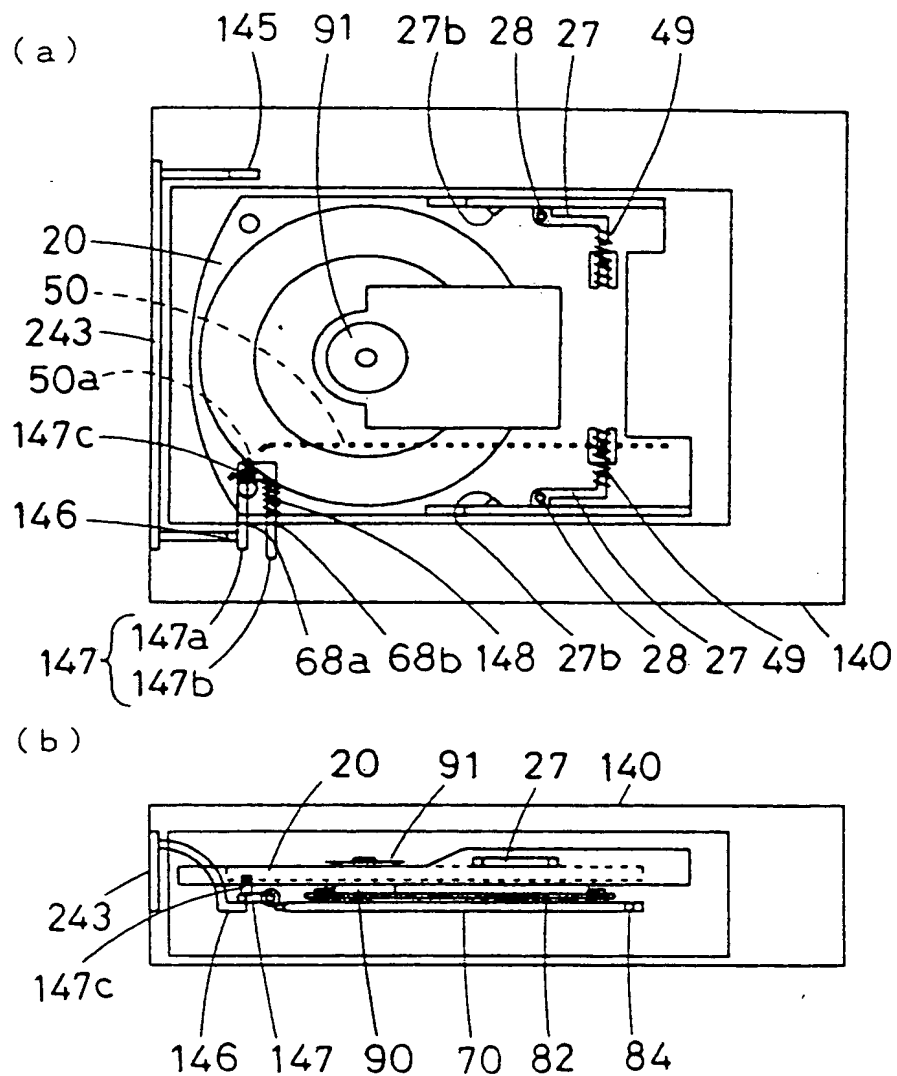


FIG. 2 9

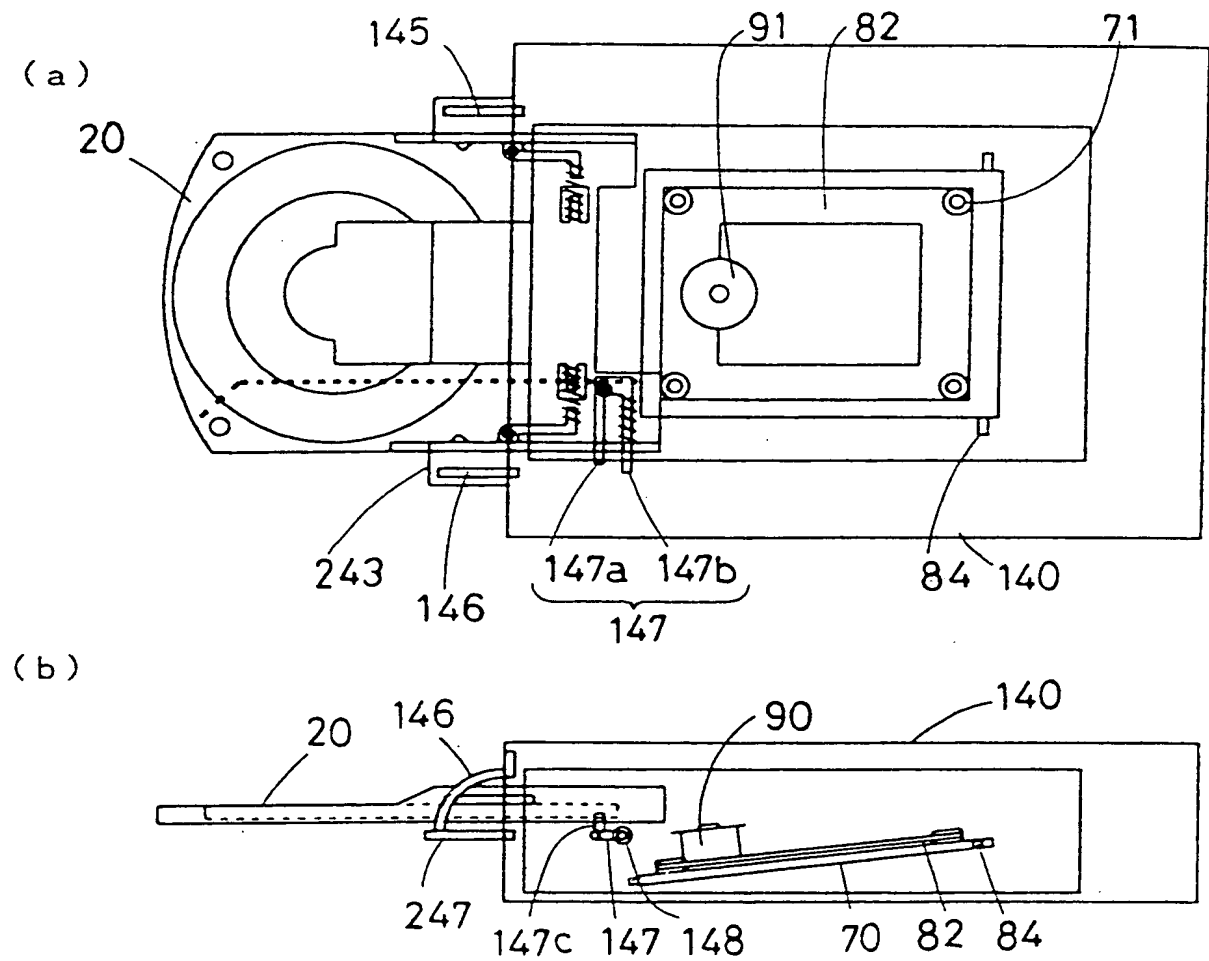
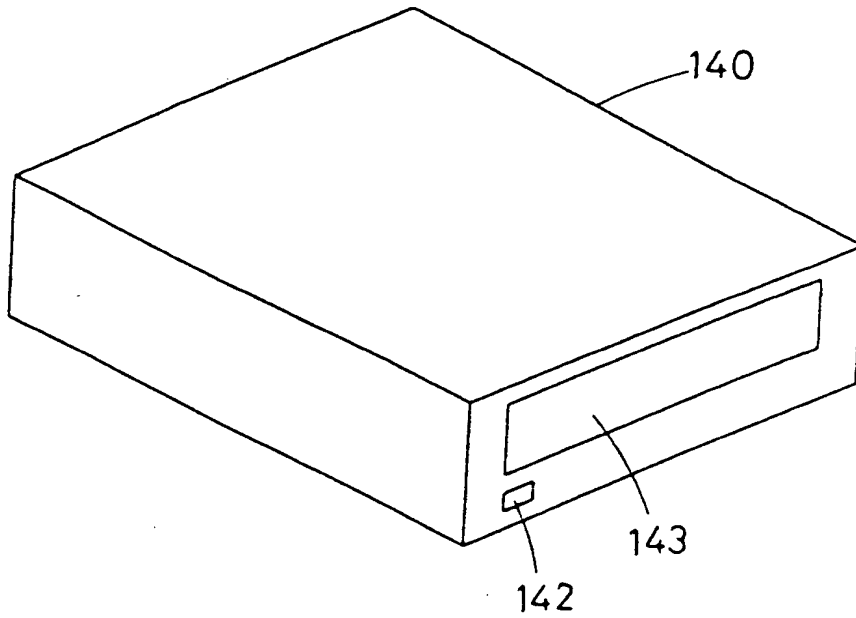


FIG. 30

(a)



(b)

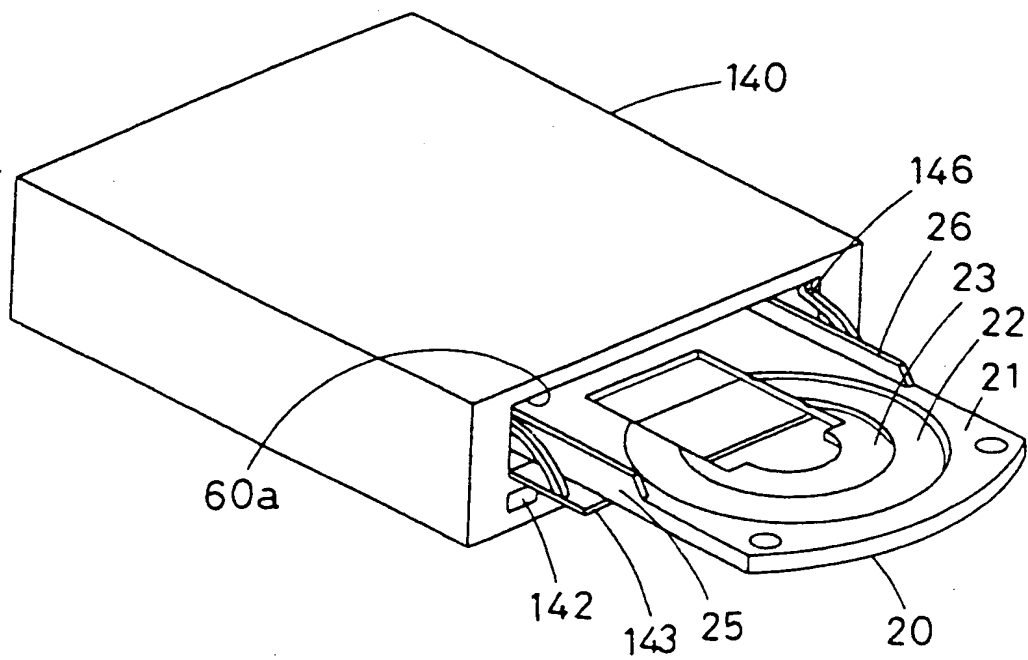


FIG. 3 1

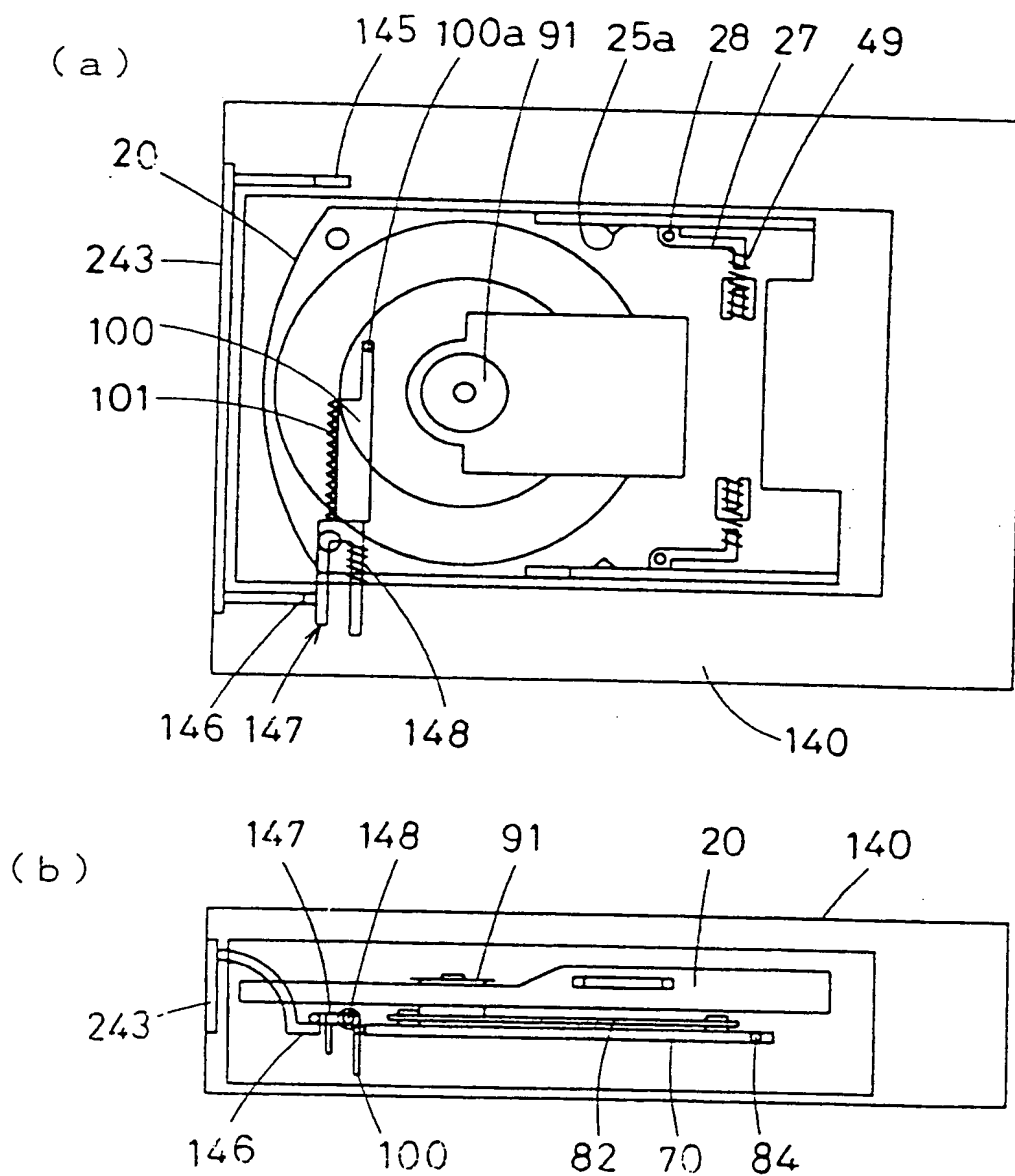


FIG. 3 2

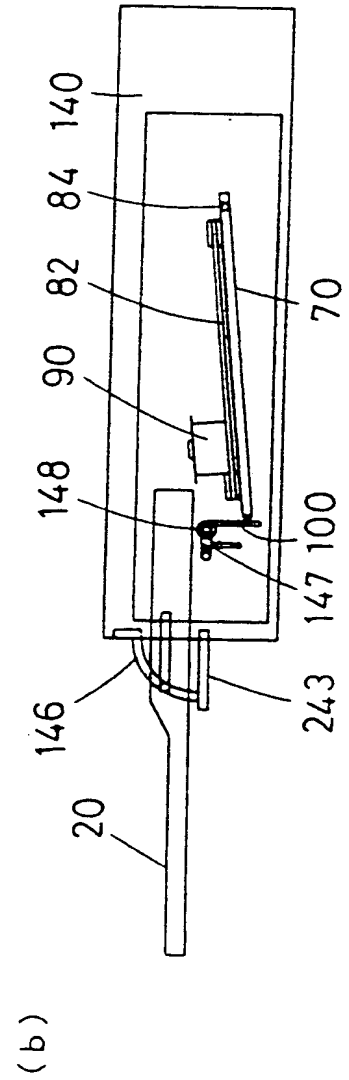
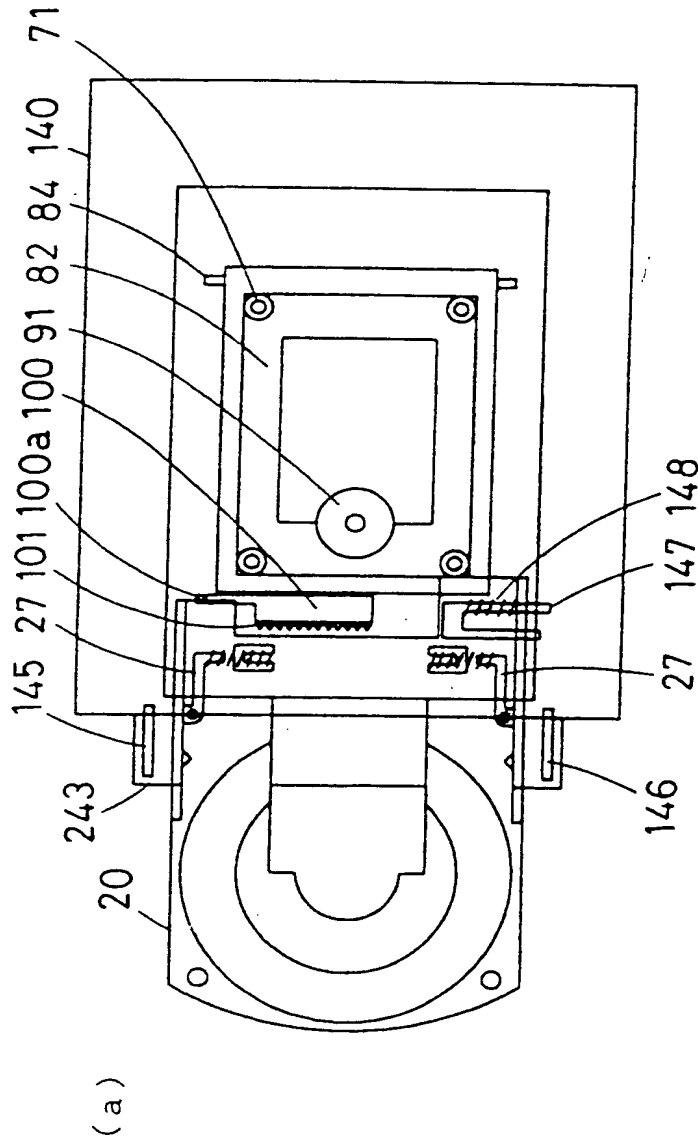
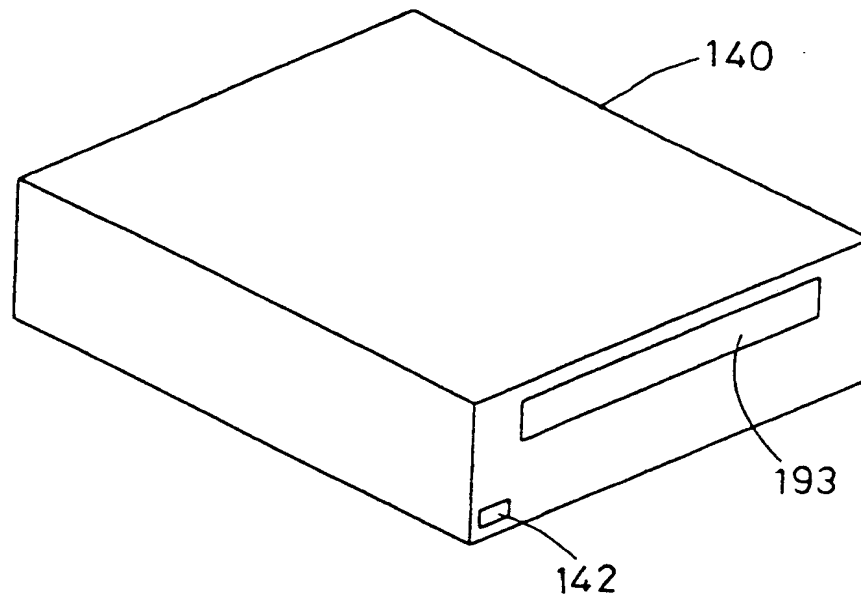


FIG. 3 3

(a)



(b)

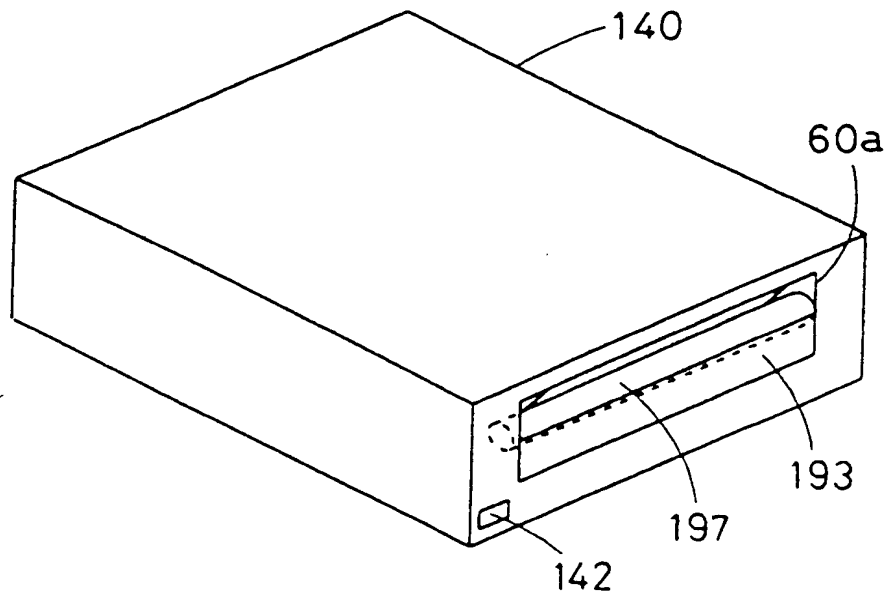


FIG. 3 4

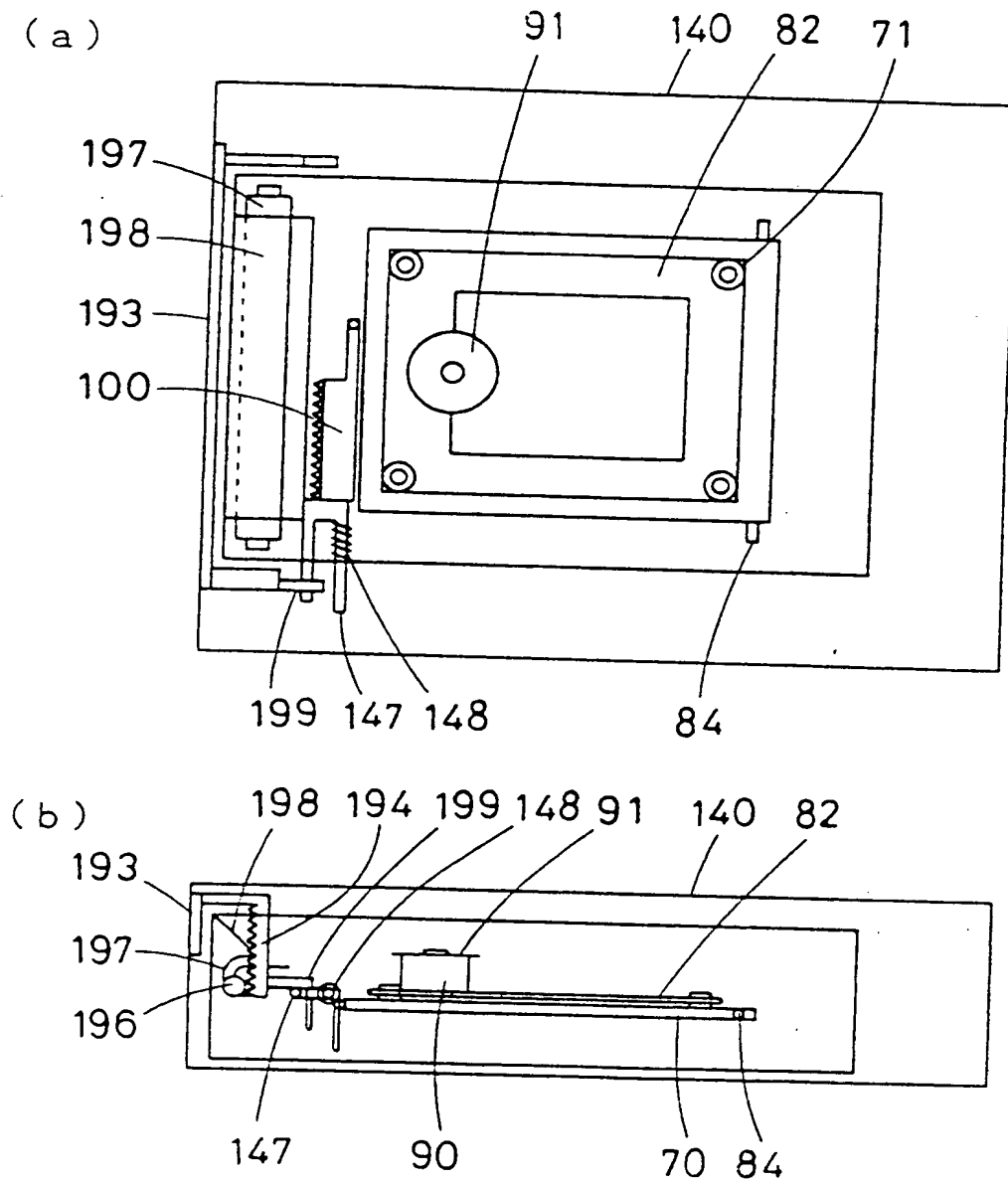
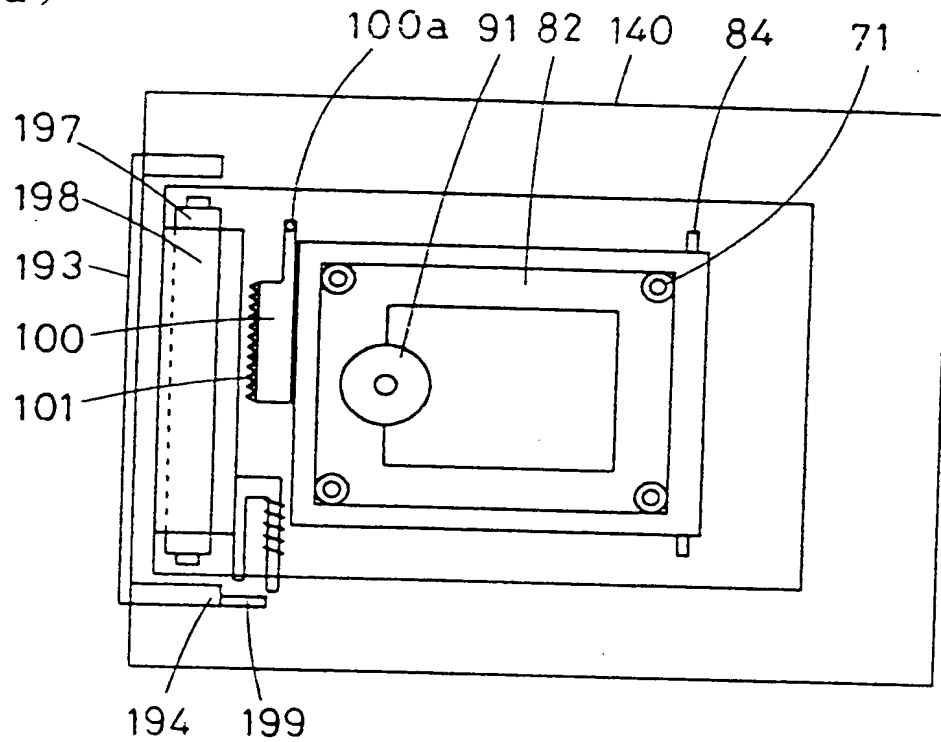


FIG. 3 5

(a)



(b)

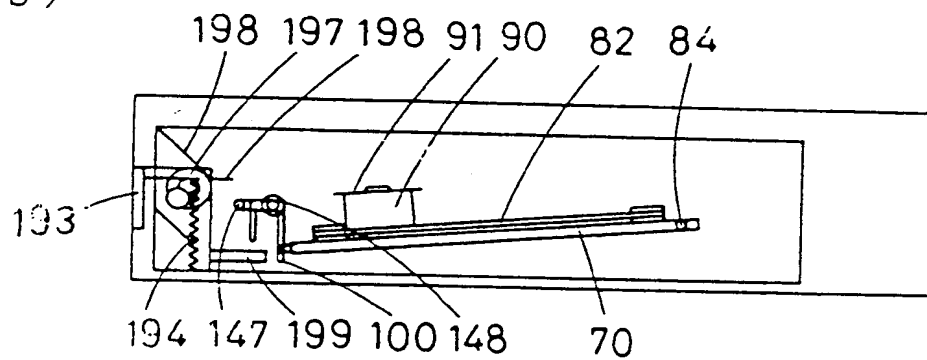


FIG. 3 6

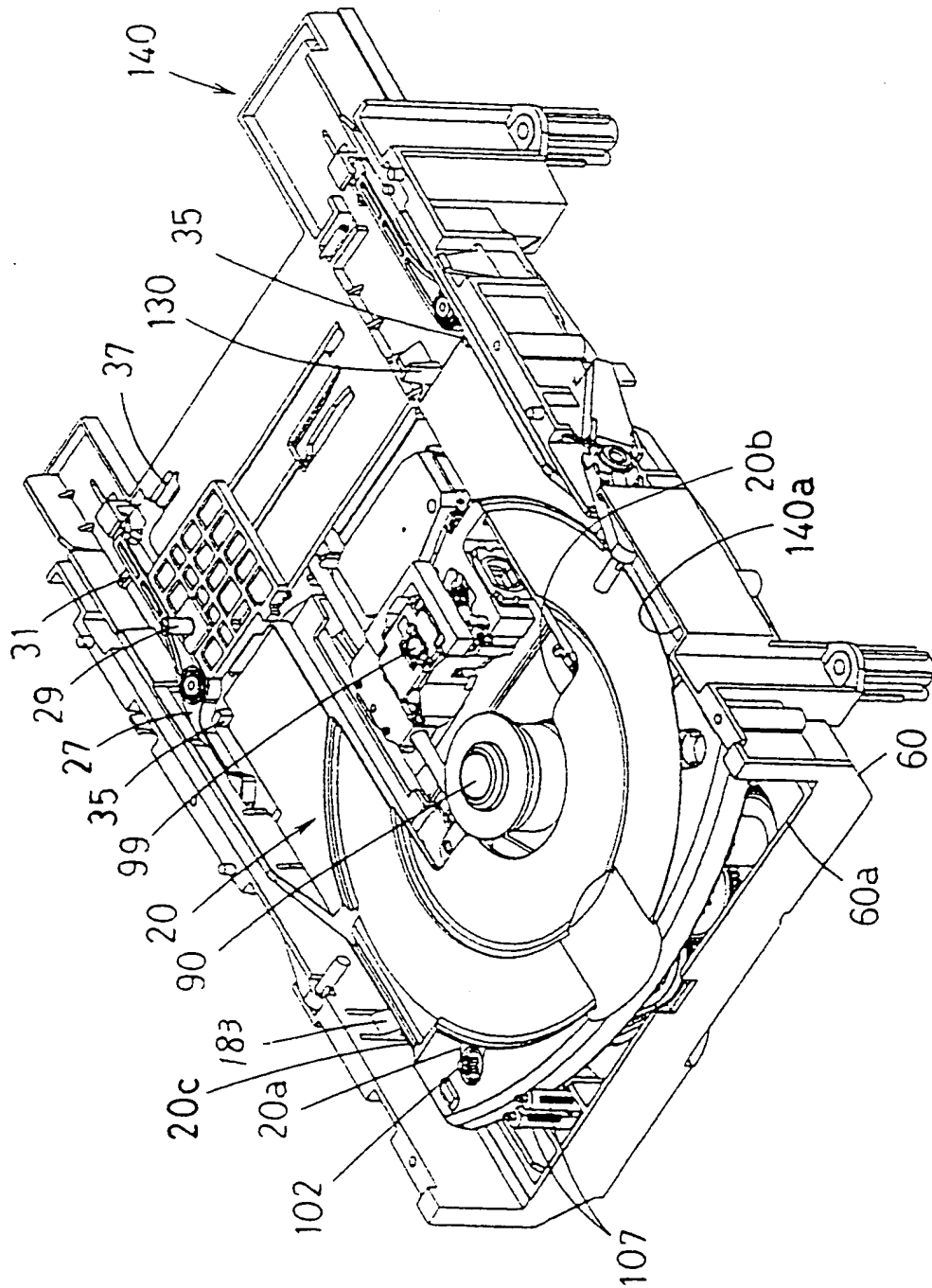


FIG. 37

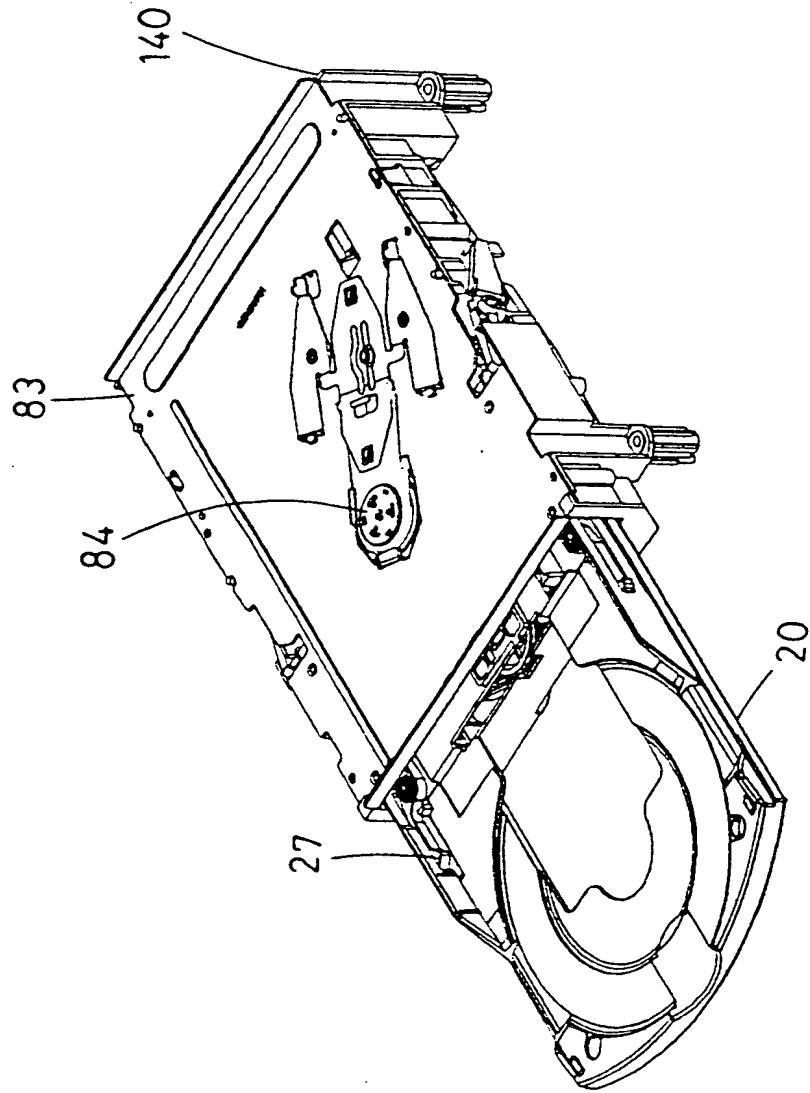


FIG. 3 8

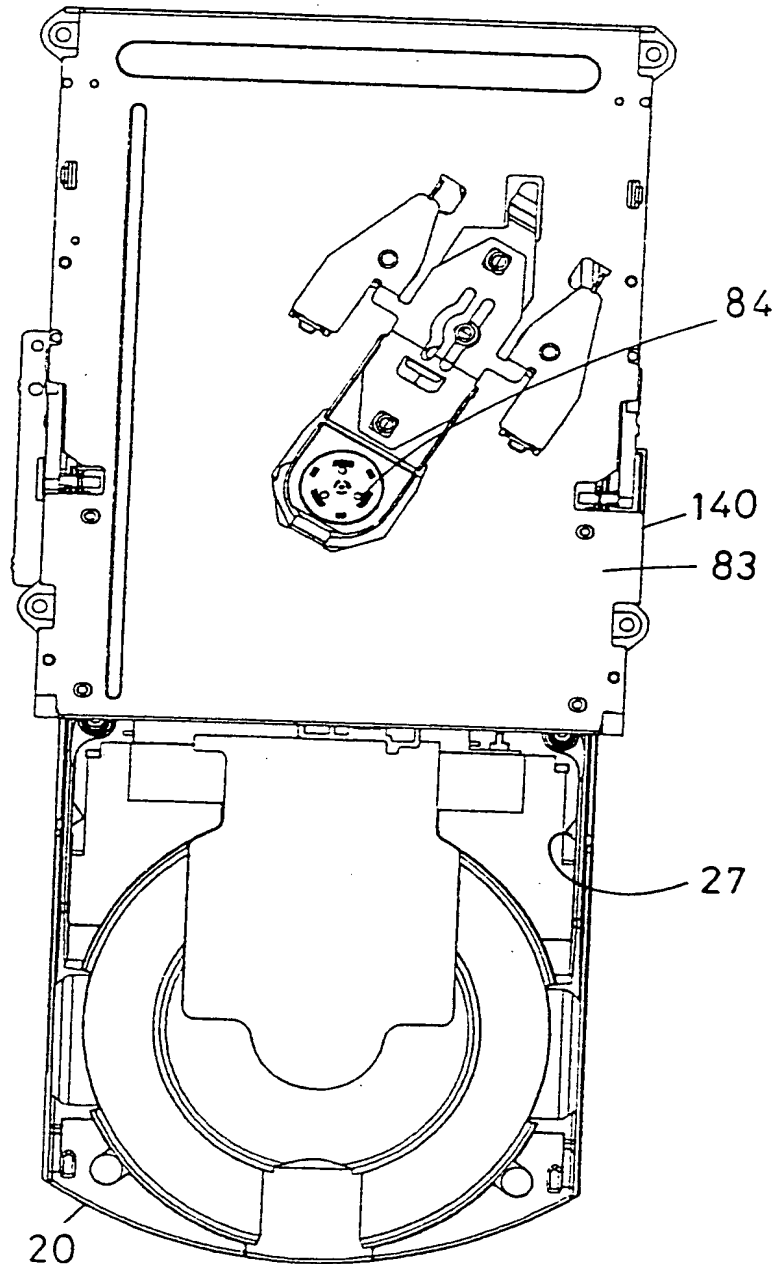
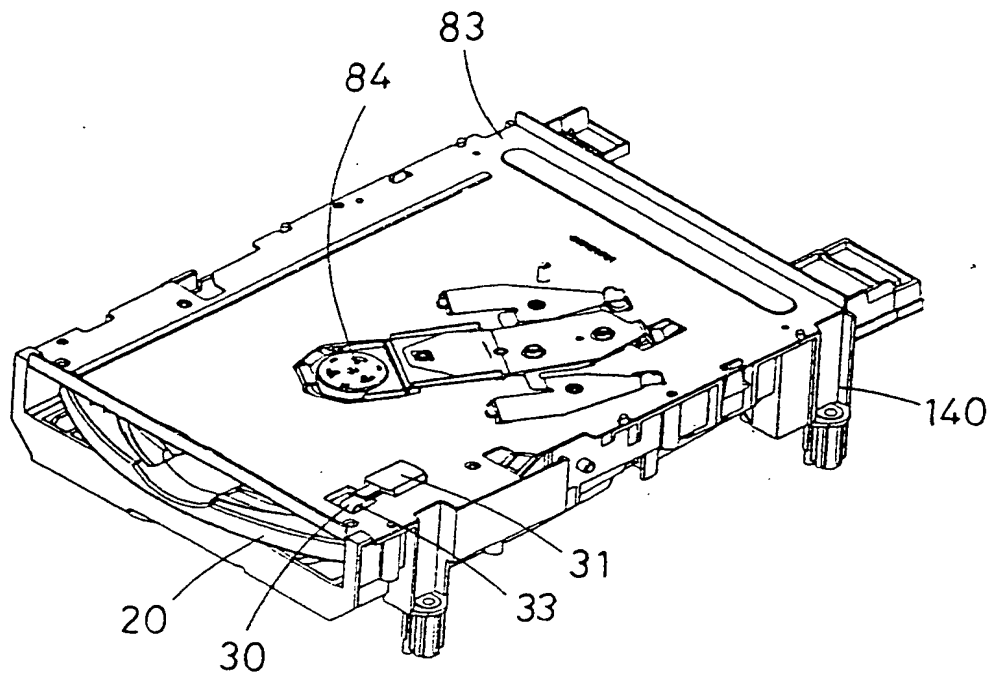


FIG. 3 9



40/70

FIG. 40

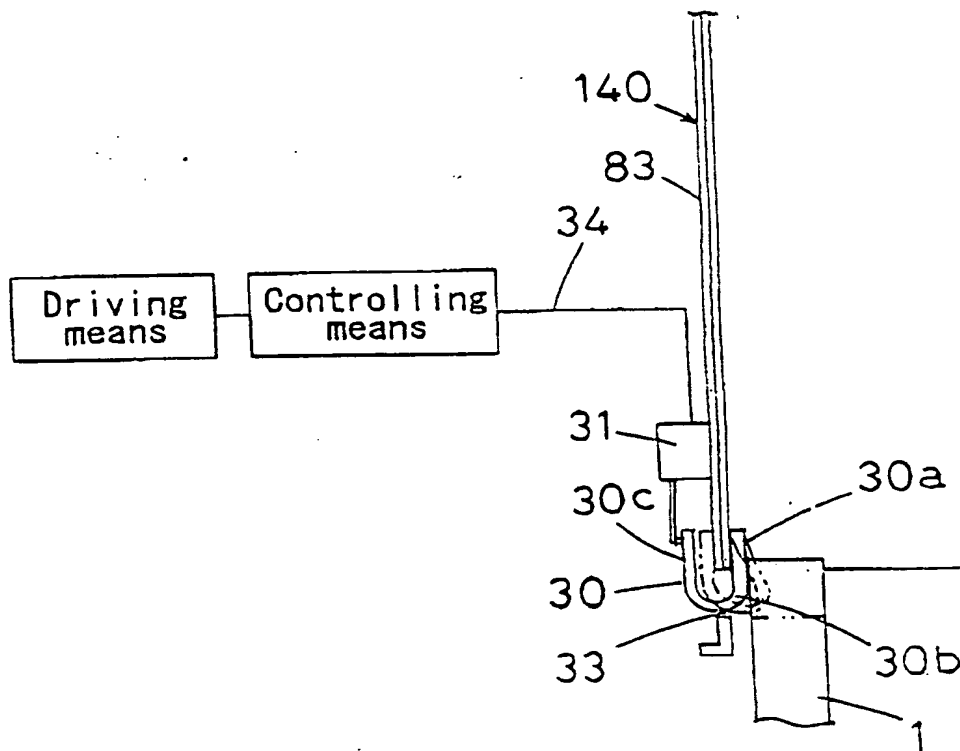


FIG. 4 1

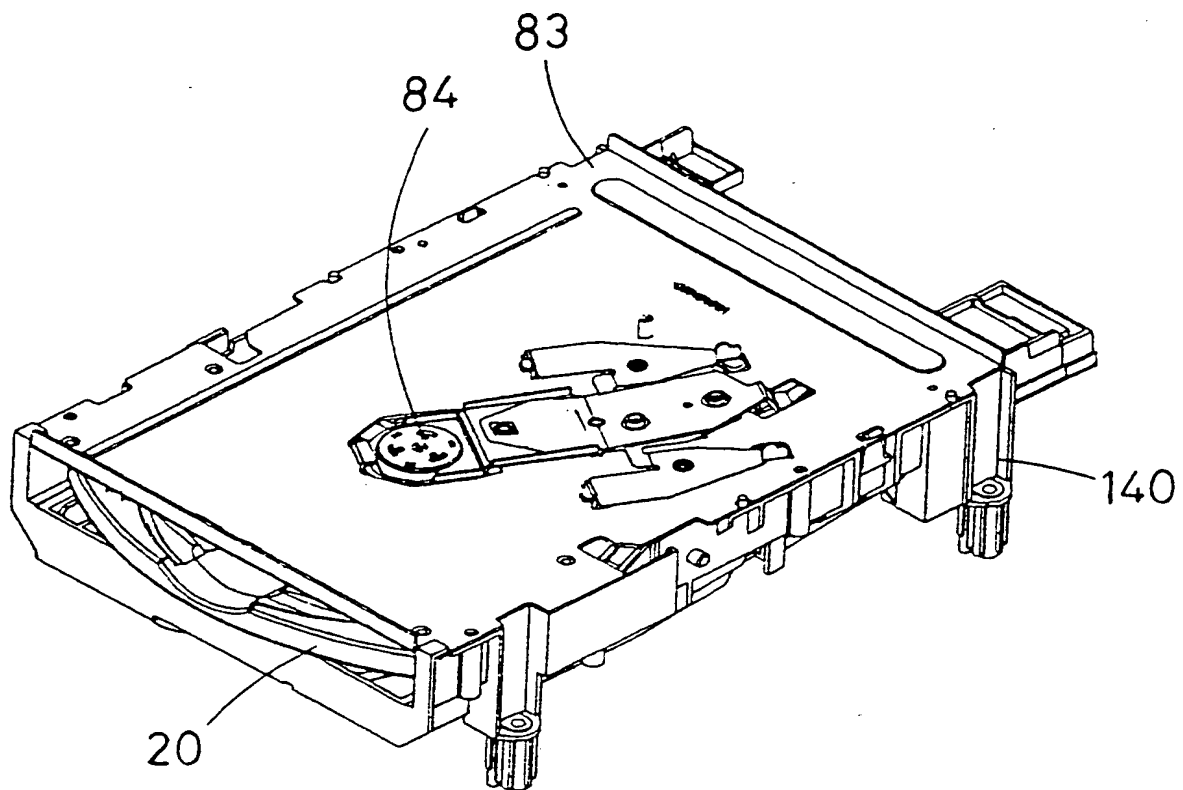


FIG. 42

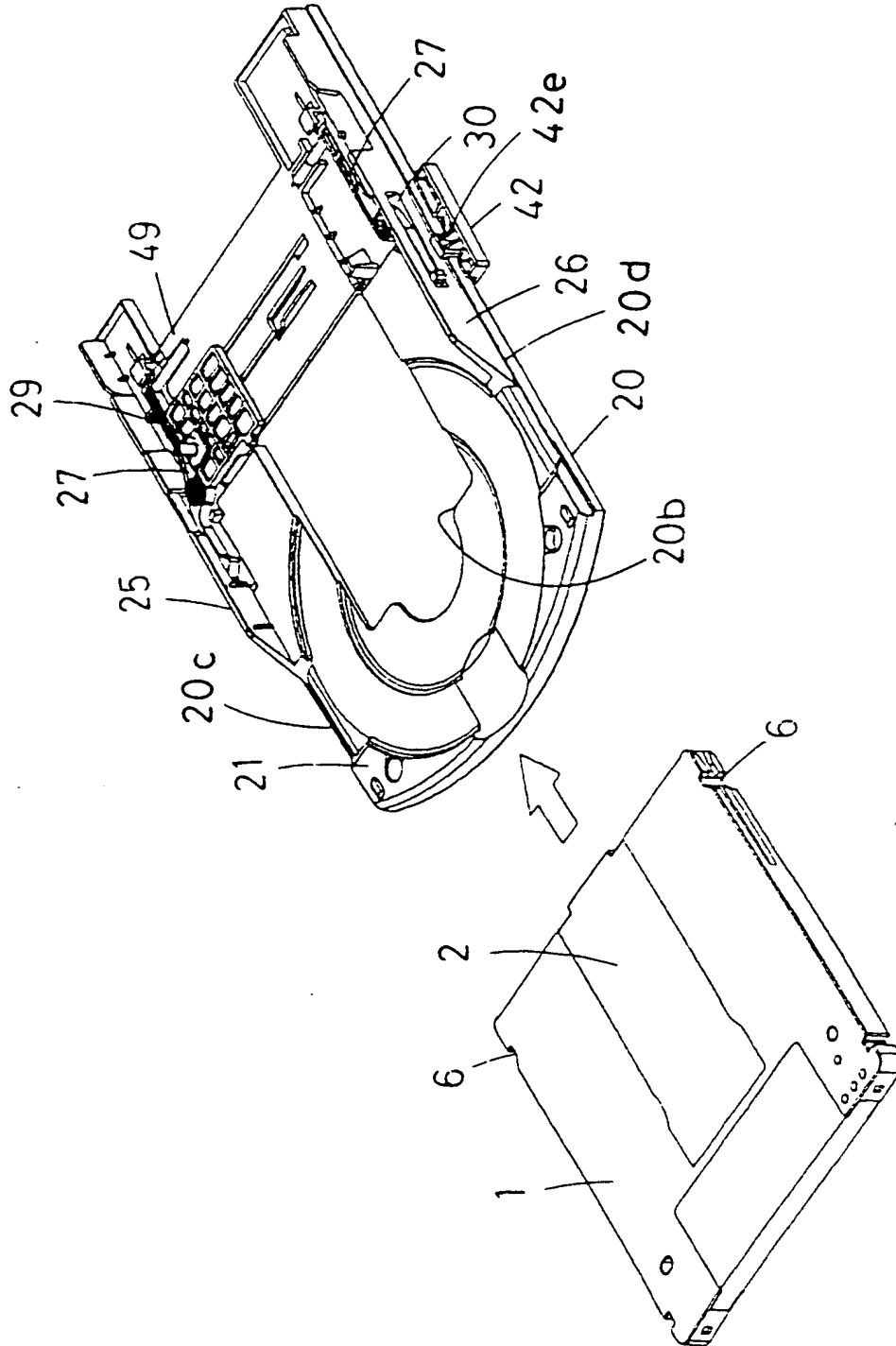


FIG. 43

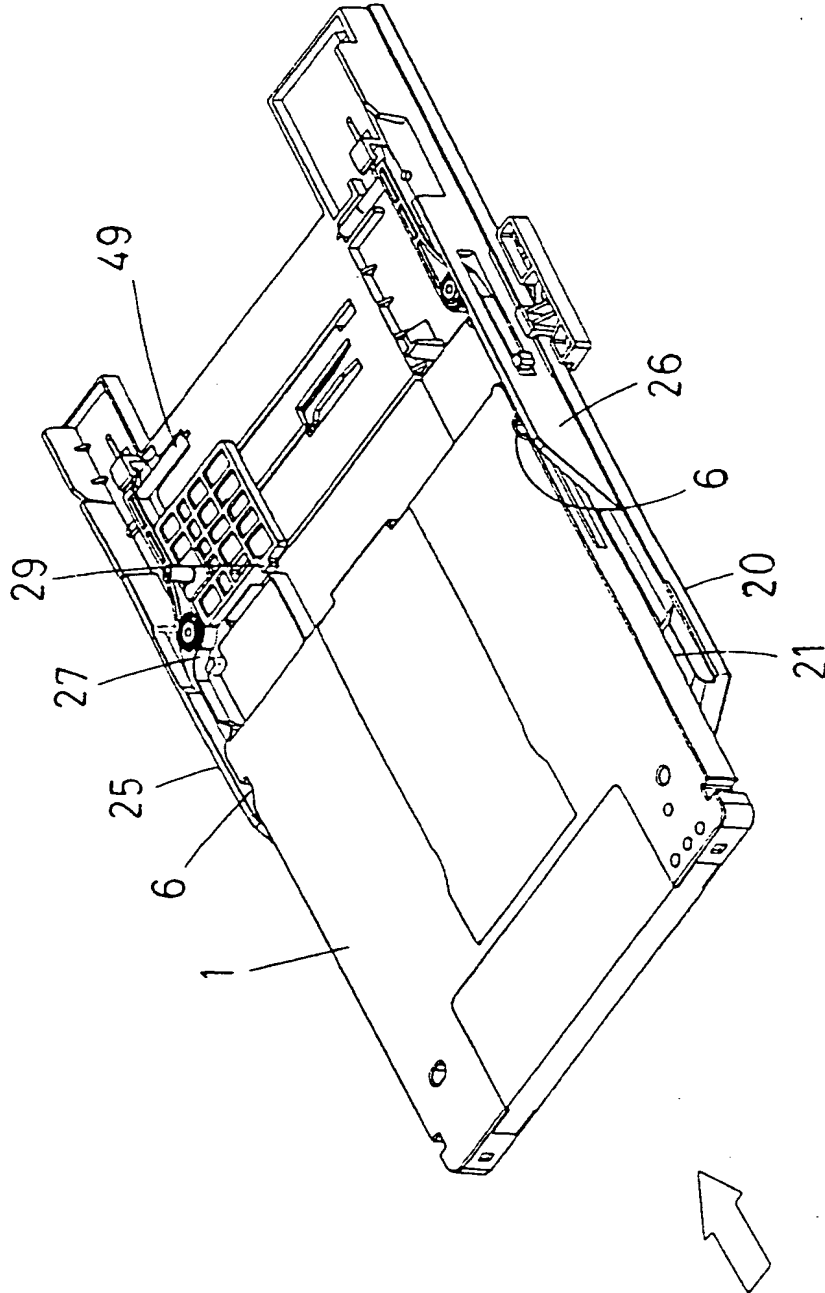


FIG. 4 4

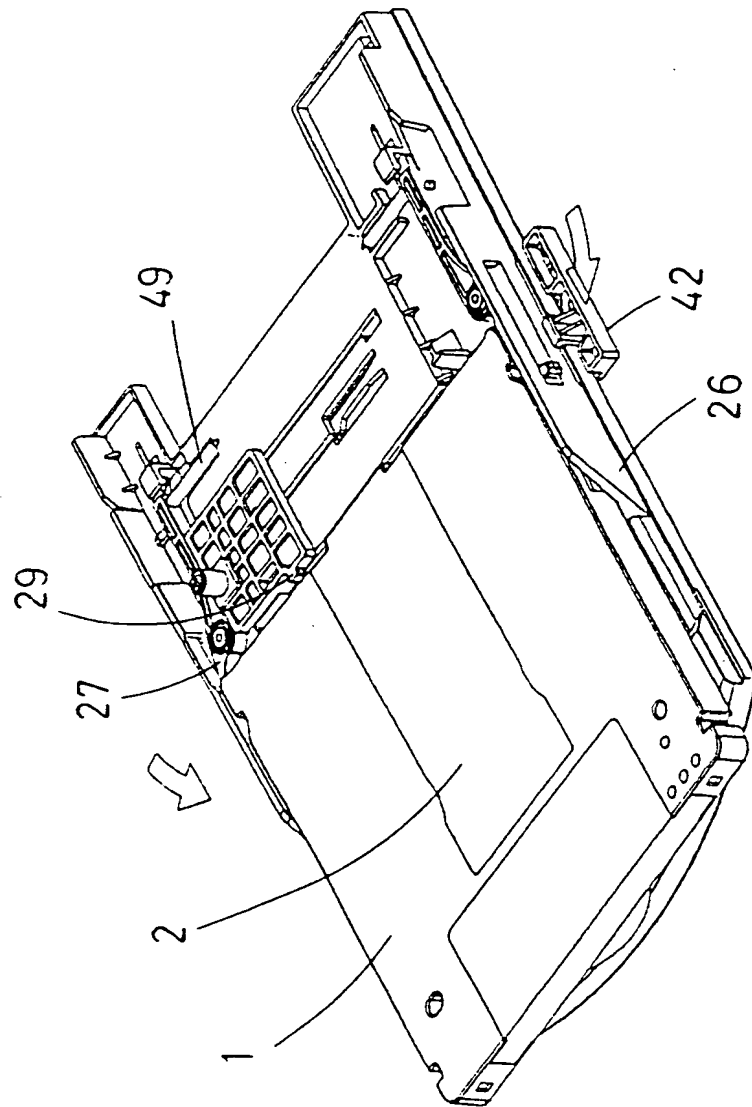


FIG. 4 5

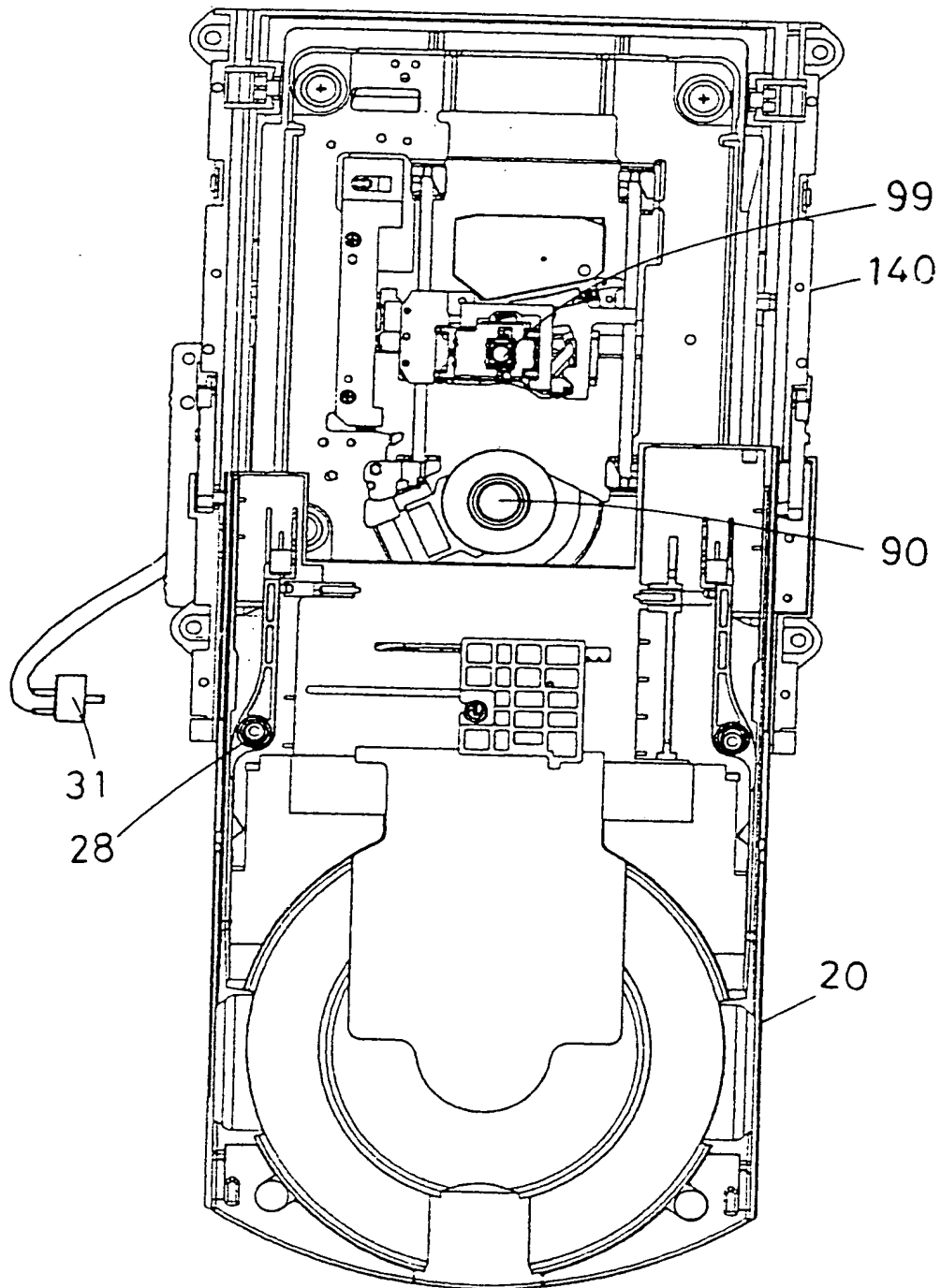


FIG. 4 6

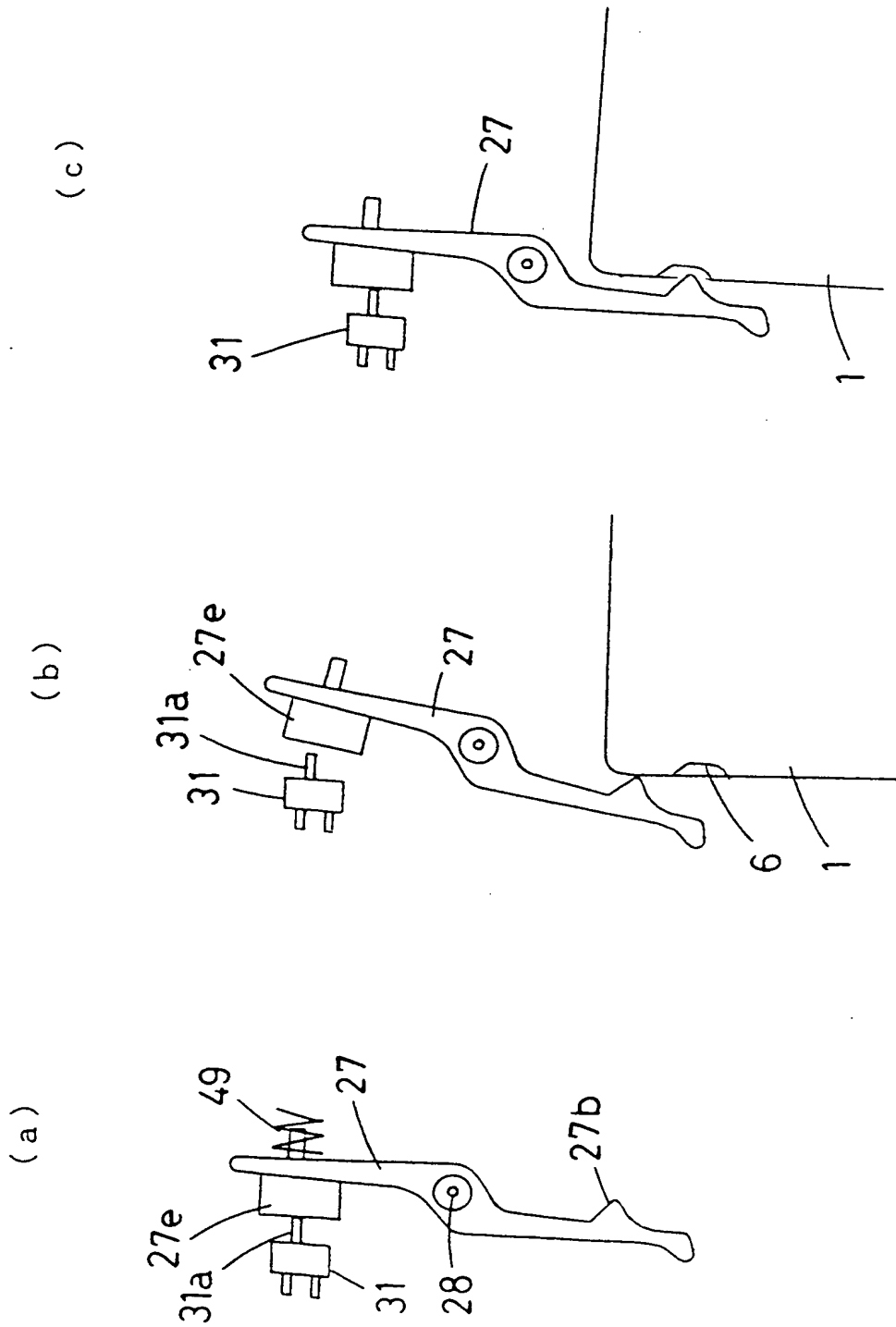
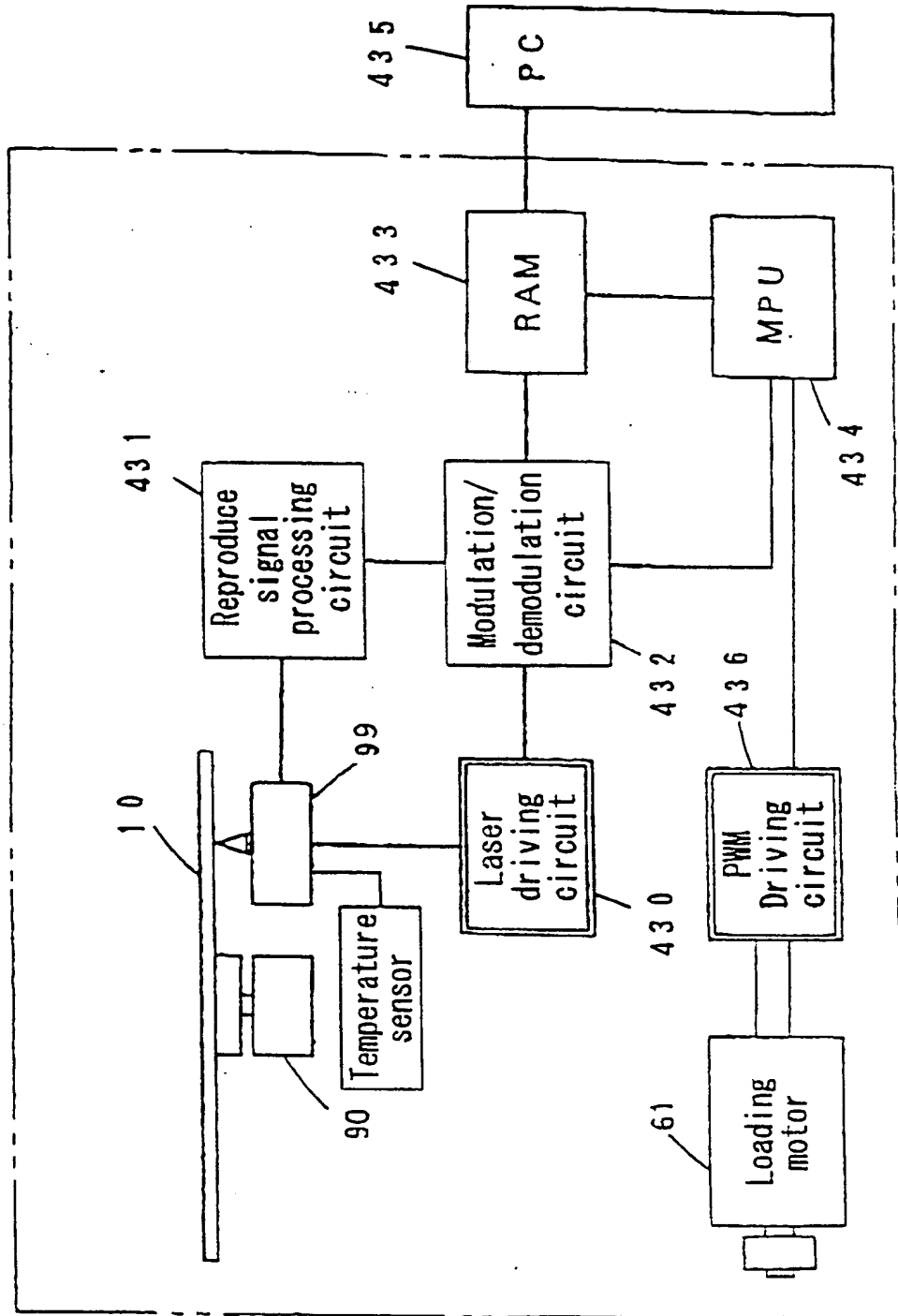
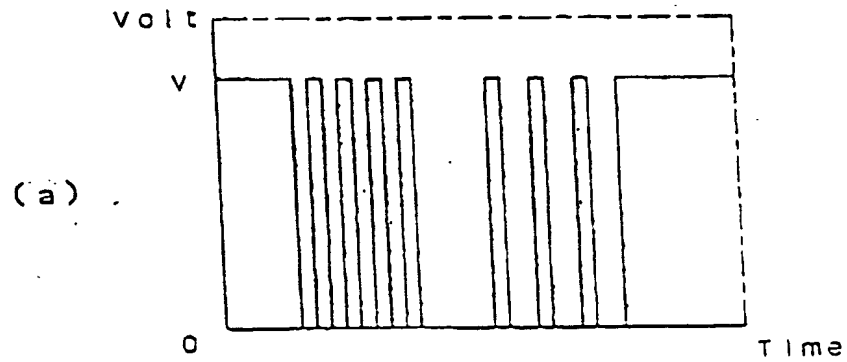


FIG. 47

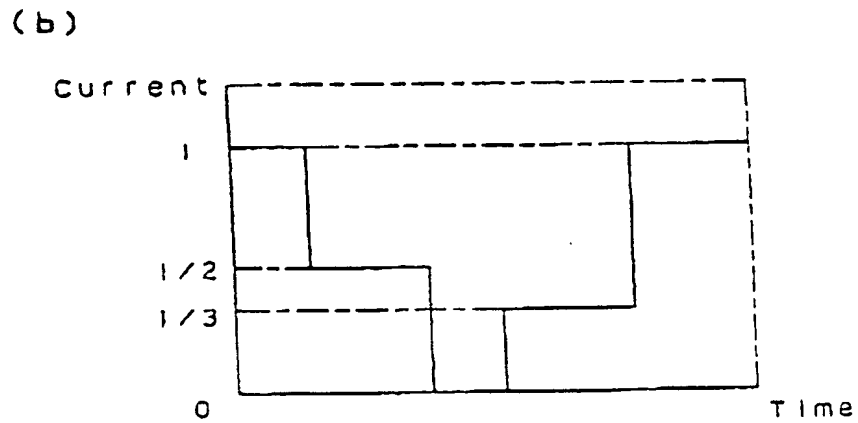


48/70

FIG. 48



(a) PWM Drive voltage



(b) PWM Drive current

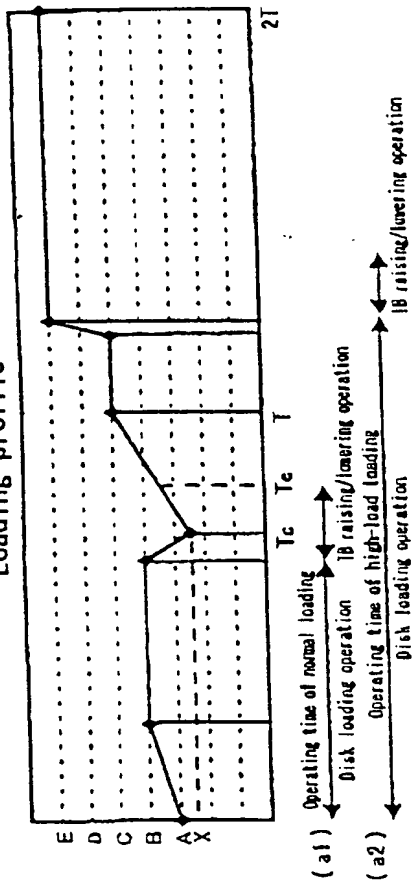
49/70

FIG. 49

(a) Within guaranteed range of temperature (normal use temperature)

PWM driving duty (%) $X < A < B < C < D < E$

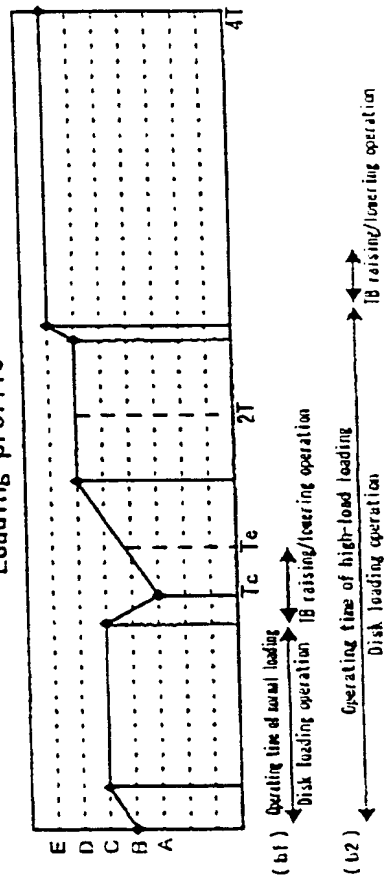
Loading profile



(b) Outside guaranteed range of temperature

PWM driving duty (%) $A < B < C < D < E$

Loading profile



50/70

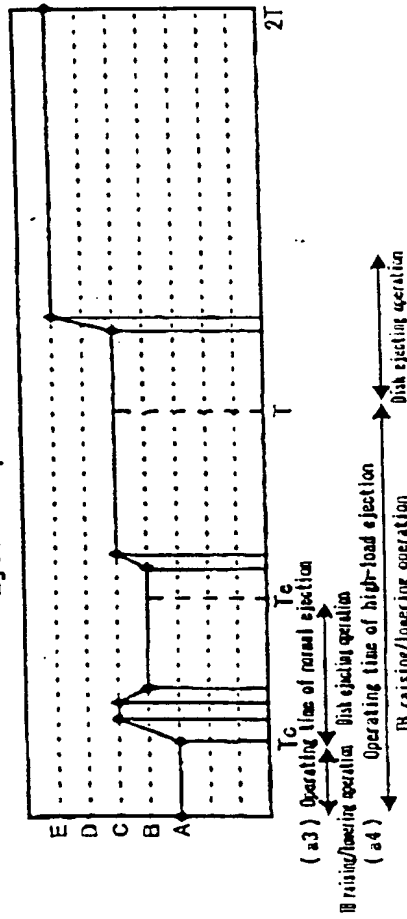
FIG. 50

(a) Within guaranteed range of temperature (normal use temperature)

PWM driving duty (%)

$A < B < C < D < E$

Ejection profile

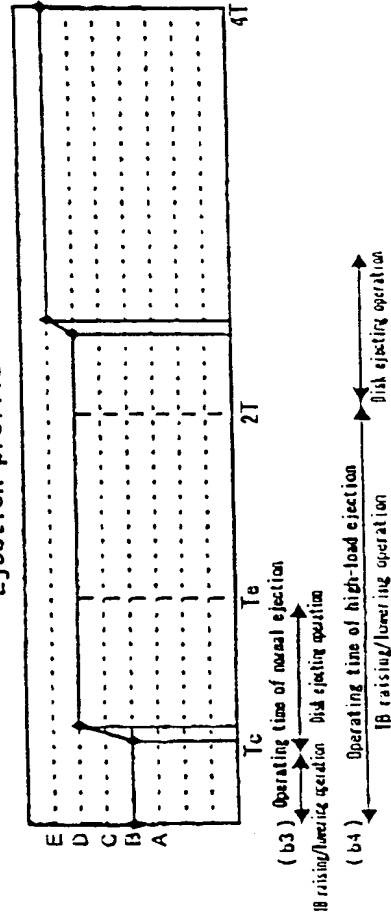


(b) Outside guaranteed range of temperature

PWM driving duty (%)

$A < B < C < D < E$

Ejection profile



51/70

FIG. 51

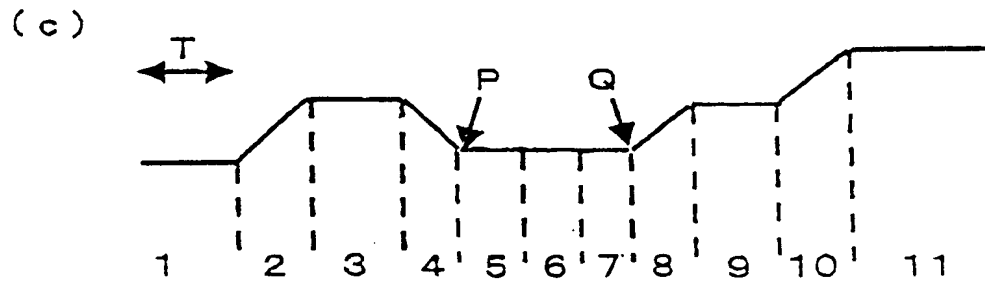
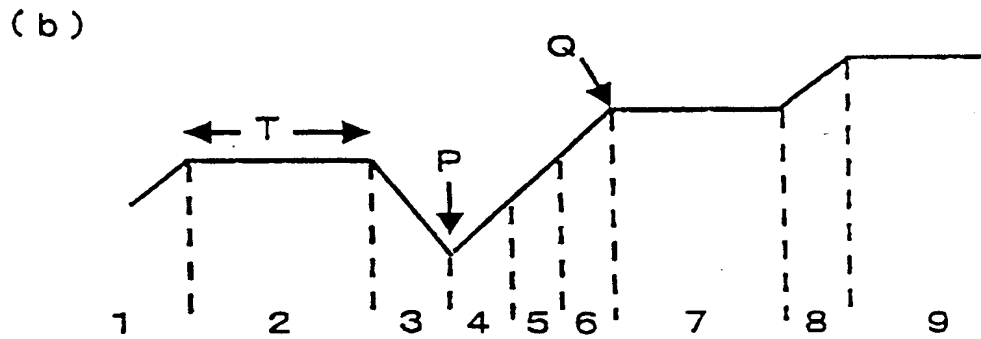
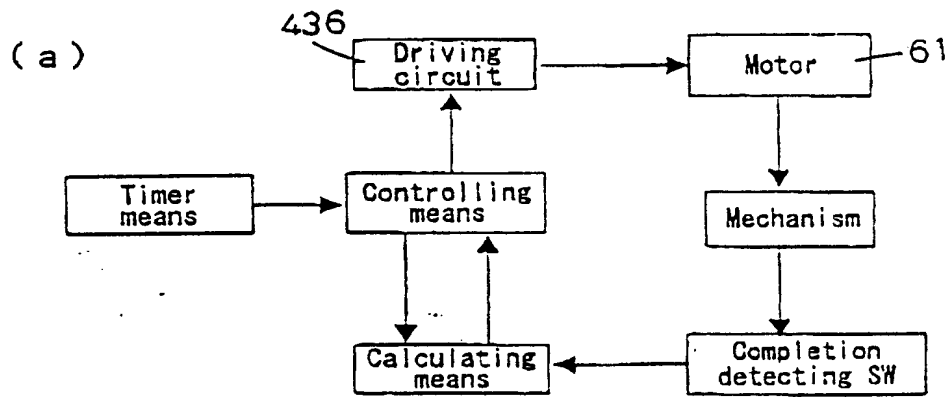


FIG. 5 2

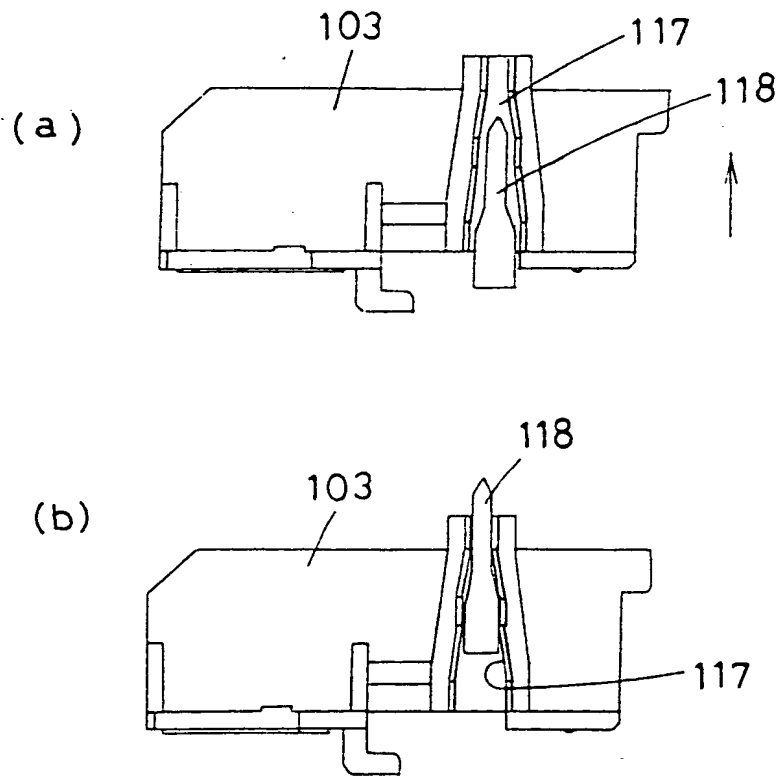


FIG. 5 3

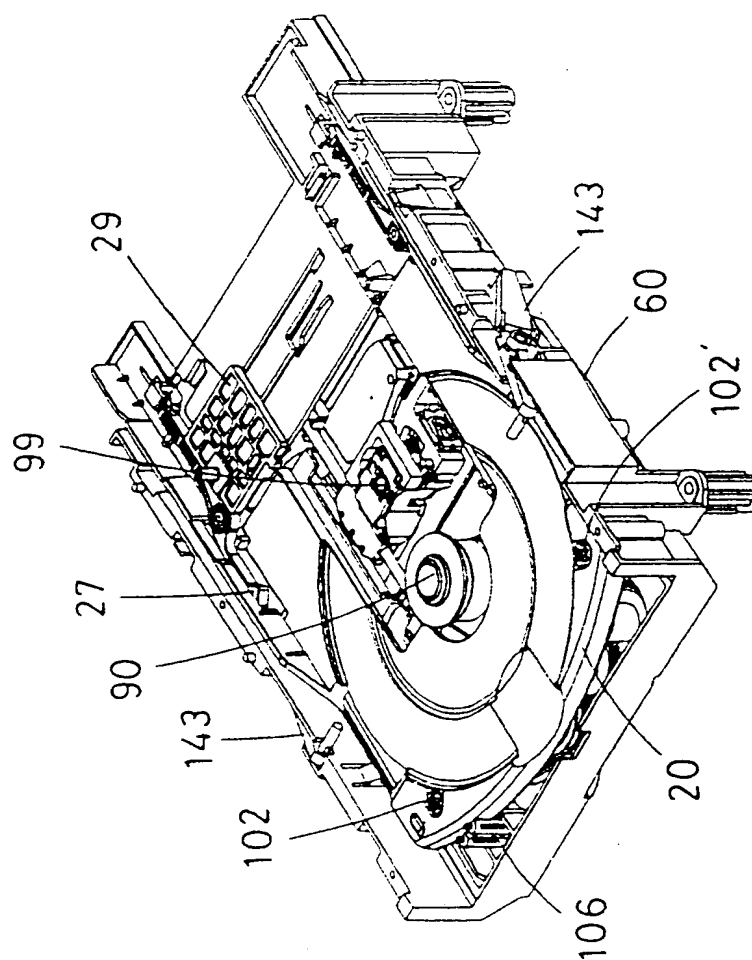


FIG. 5 4

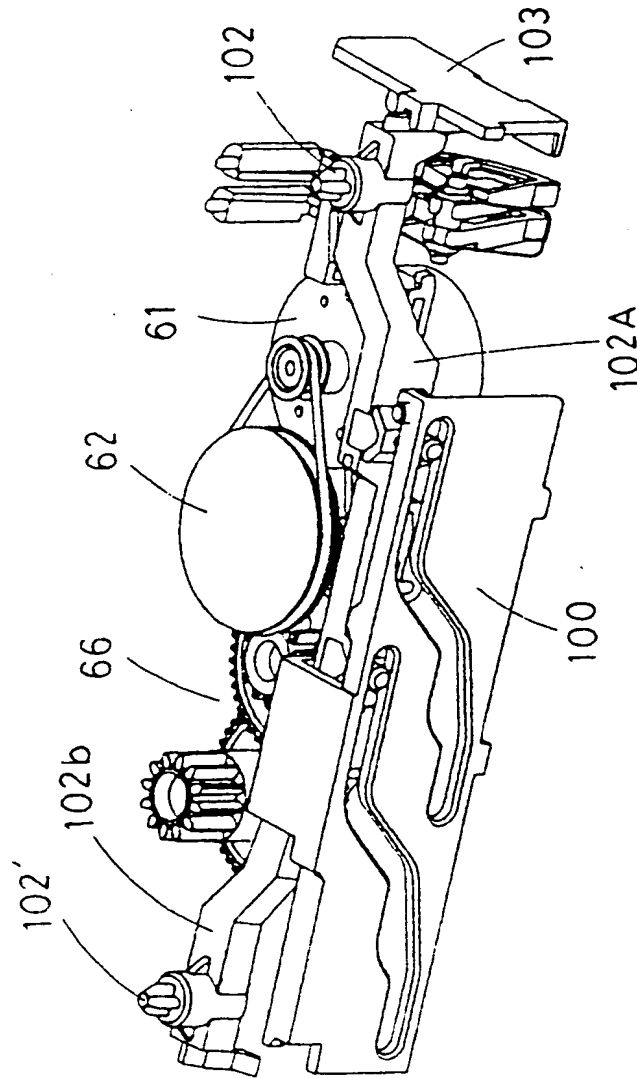


FIG. 5 5

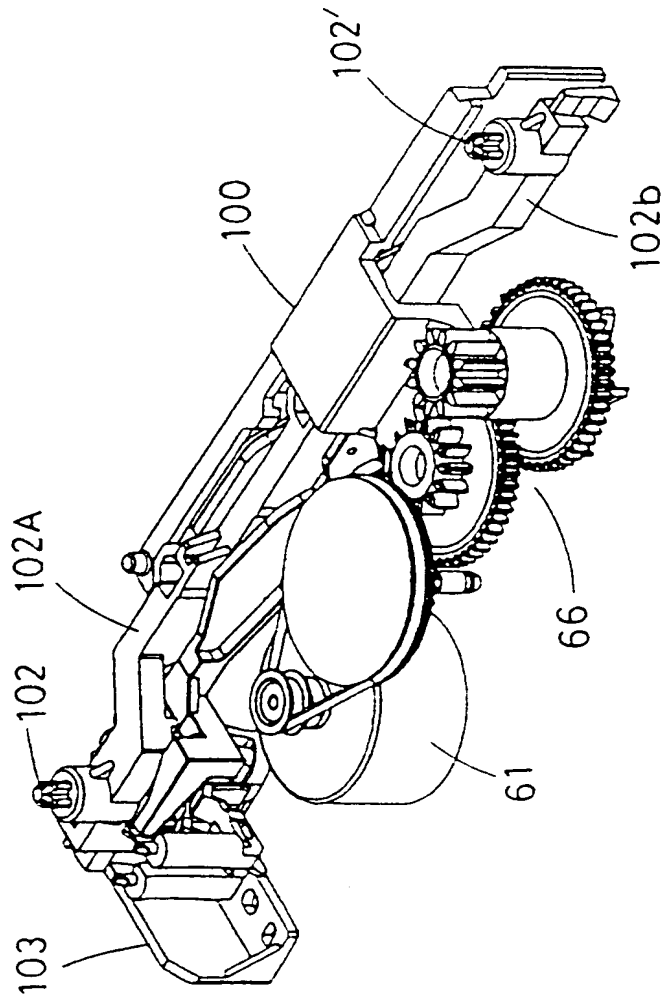


FIG. 5 6

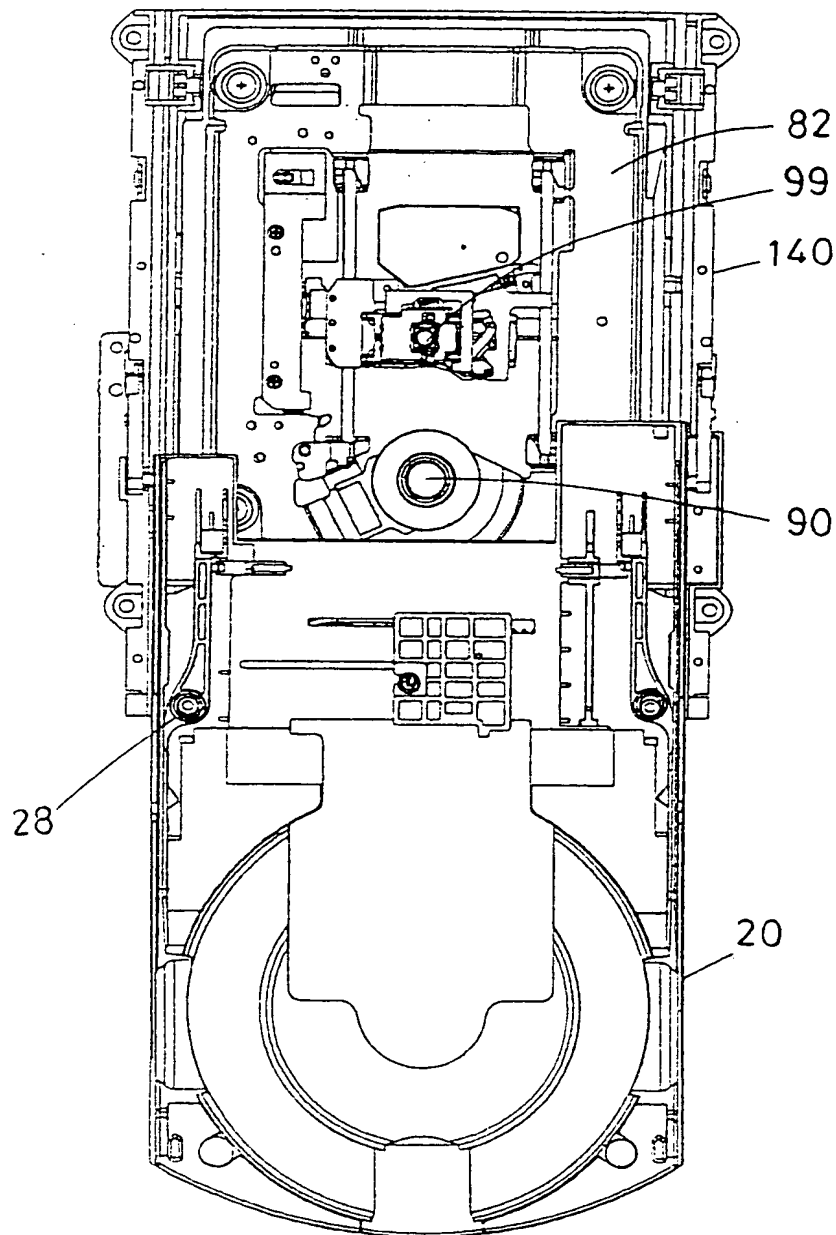
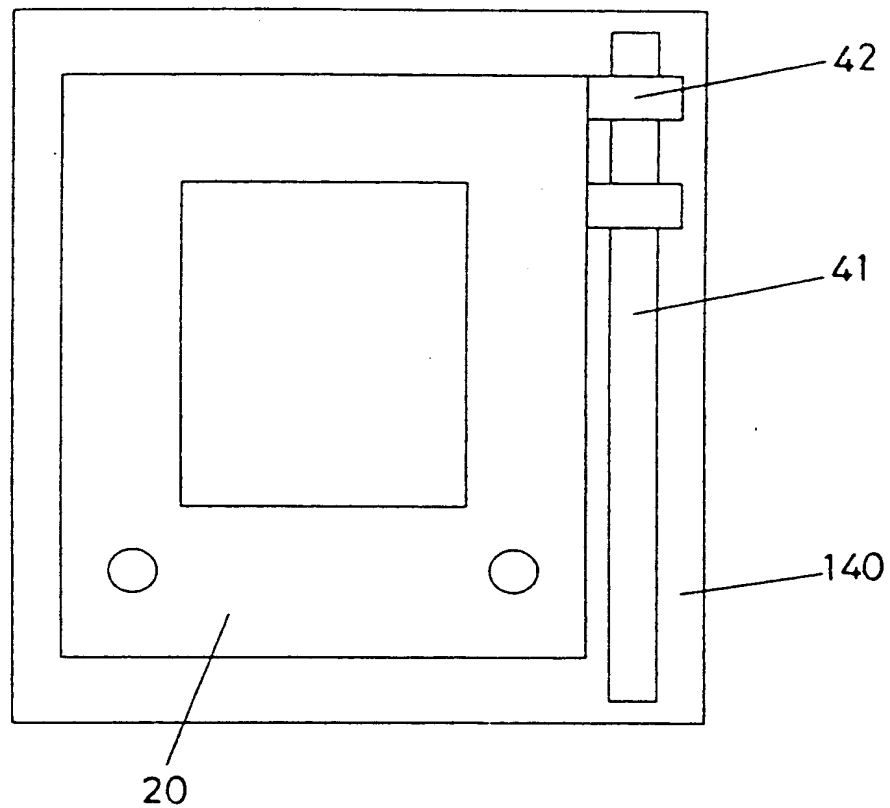


FIG. 5 7

(a)



(b)

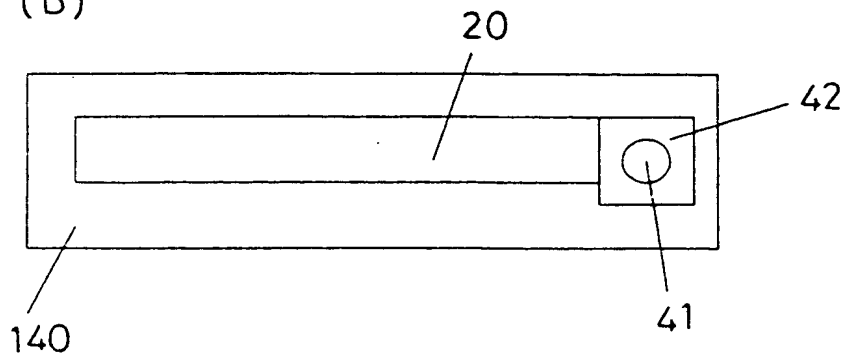


FIG. 5 8

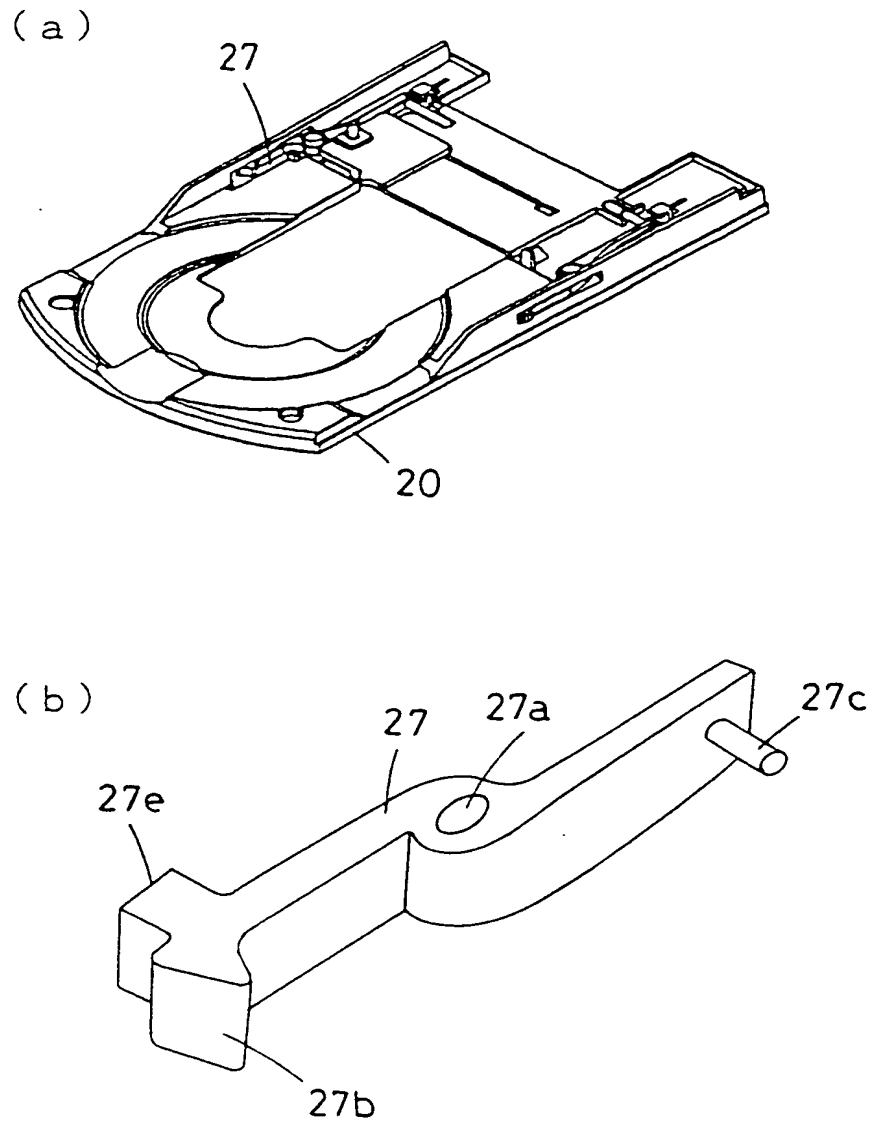
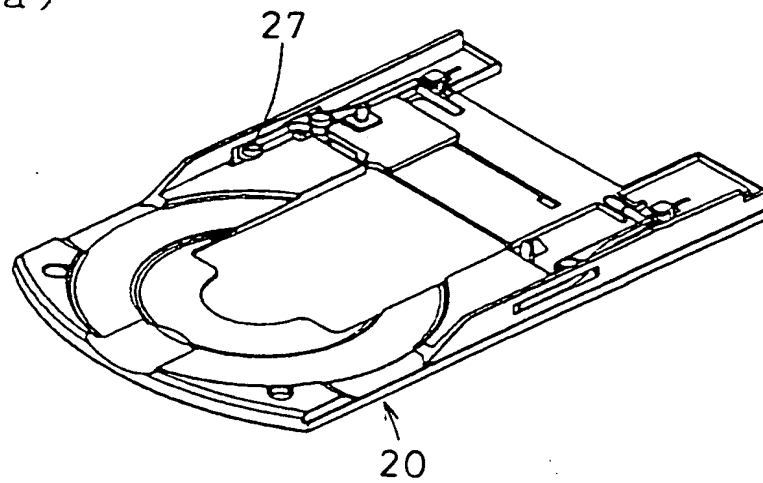


FIG. 5 9

(a)



(b)

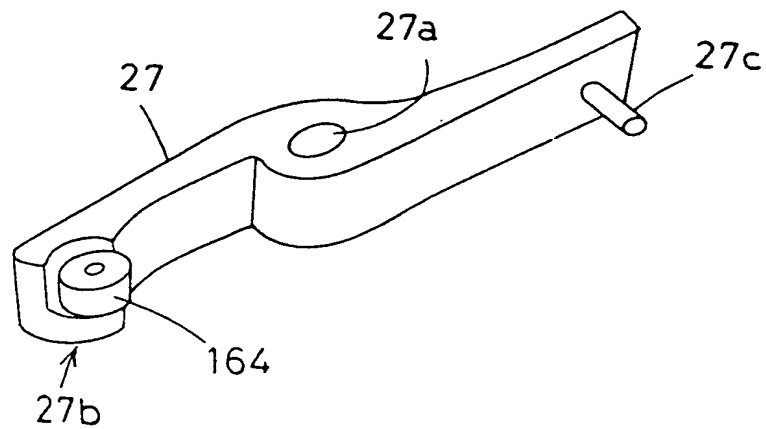


FIG. 6 O

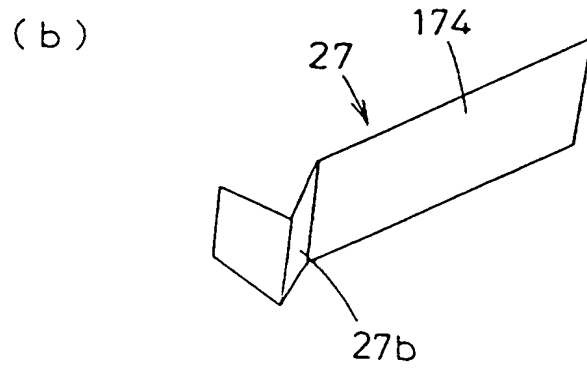
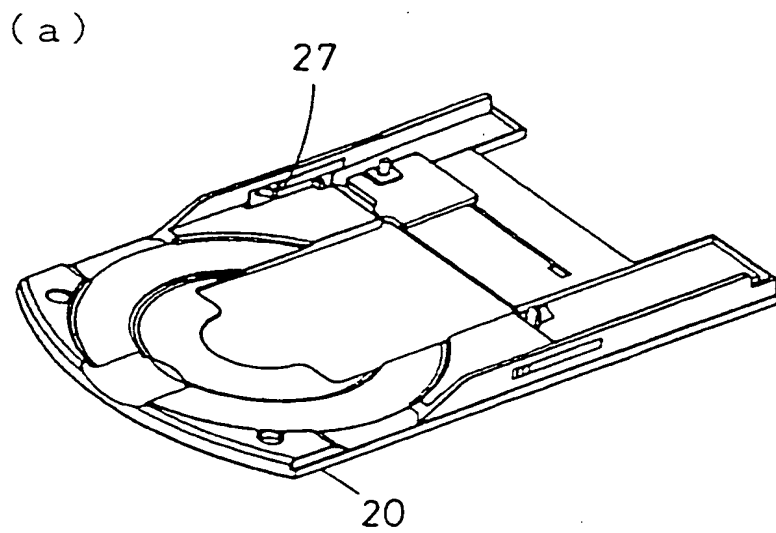
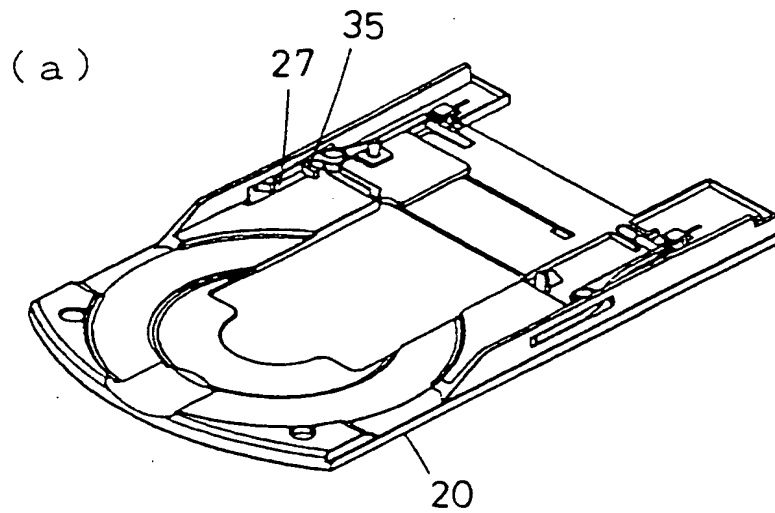


FIG. 6 1



(b)

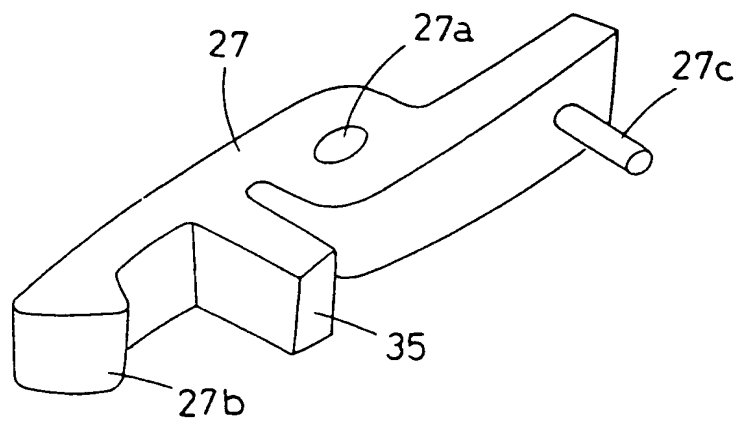


FIG. 62

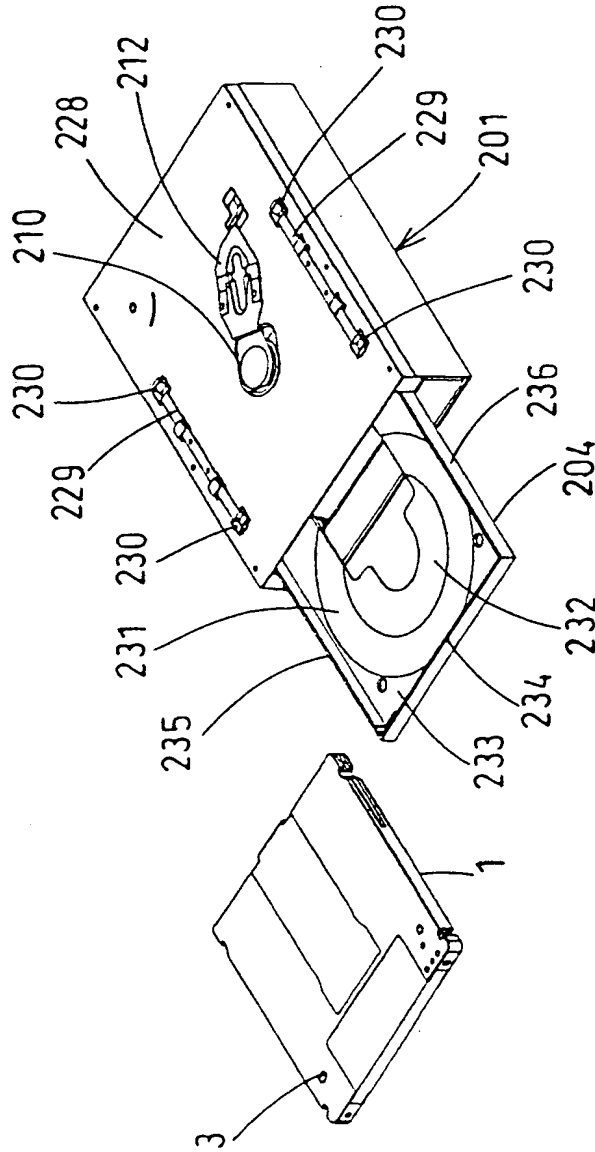


FIG. 6 3

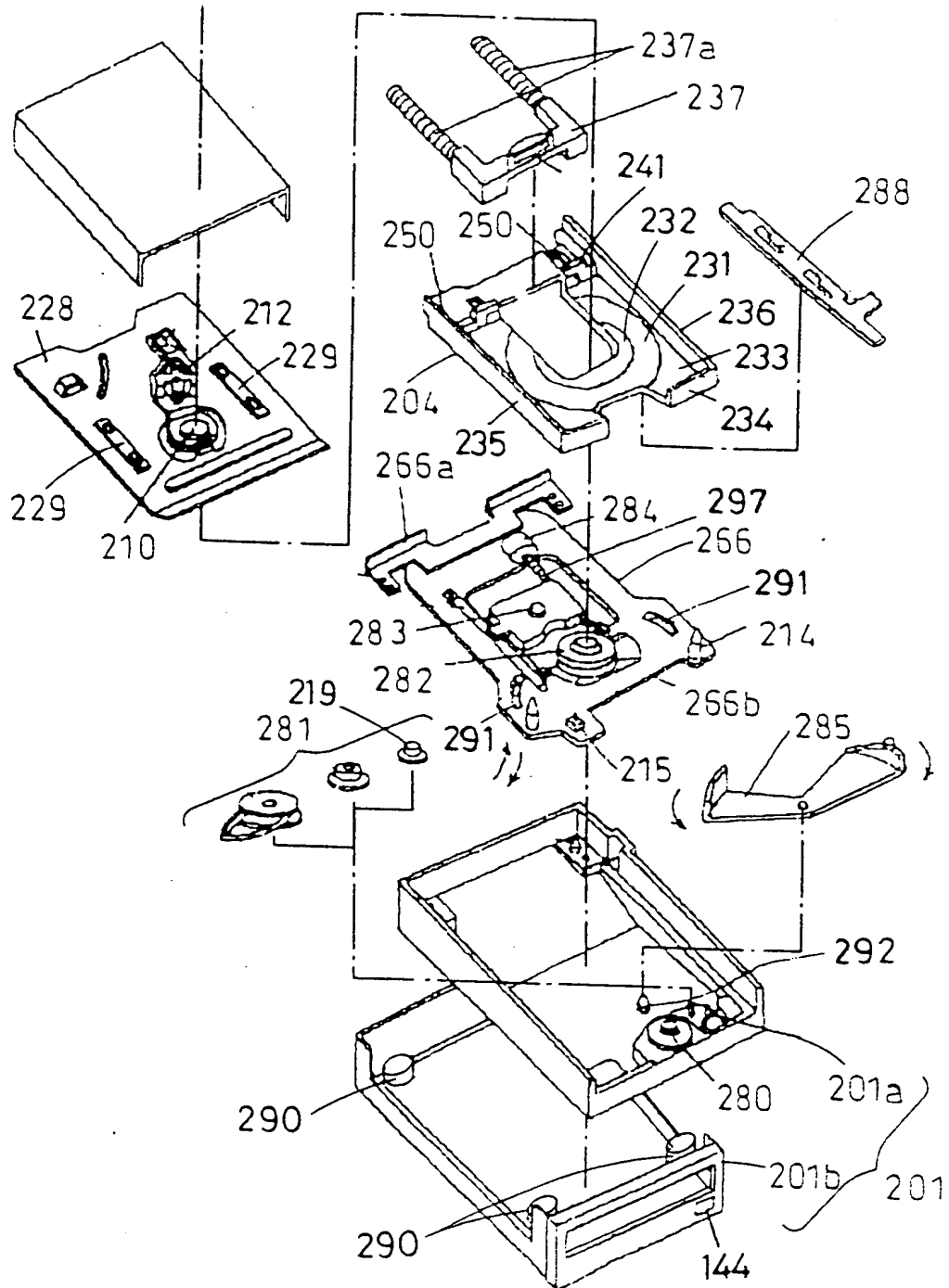


FIG. 6 4

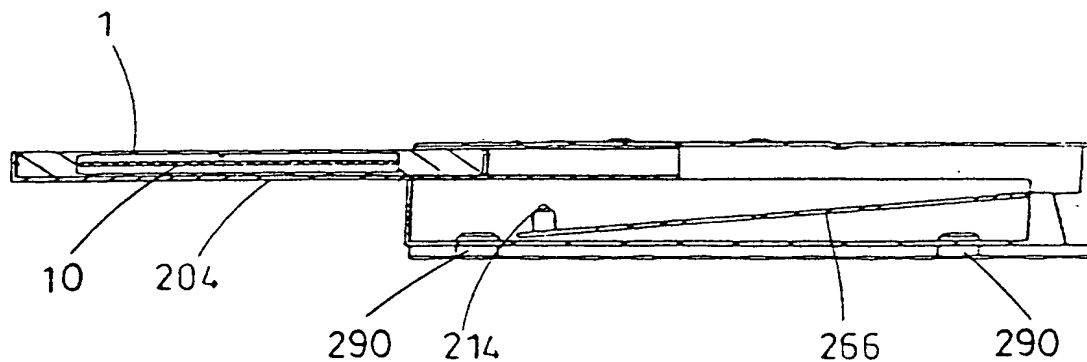


FIG. 6 5

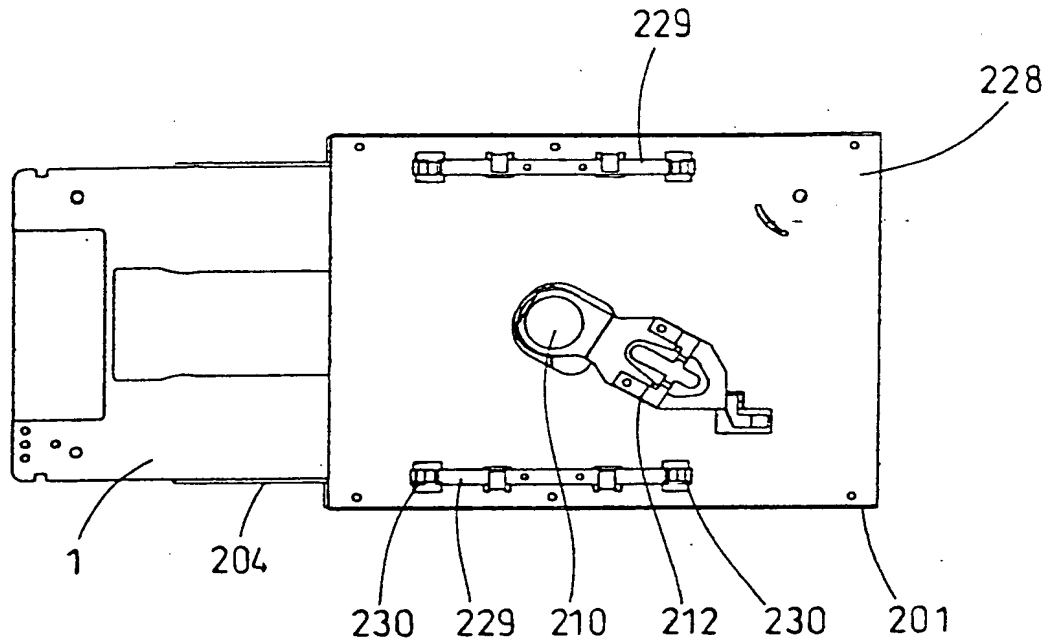
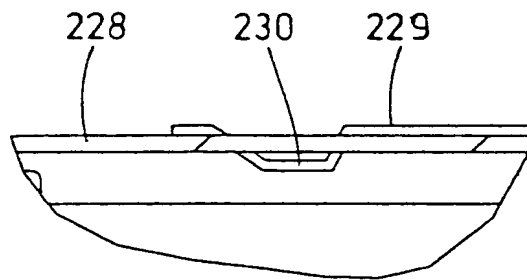


FIG. 6 6



67/70

FIG. 67

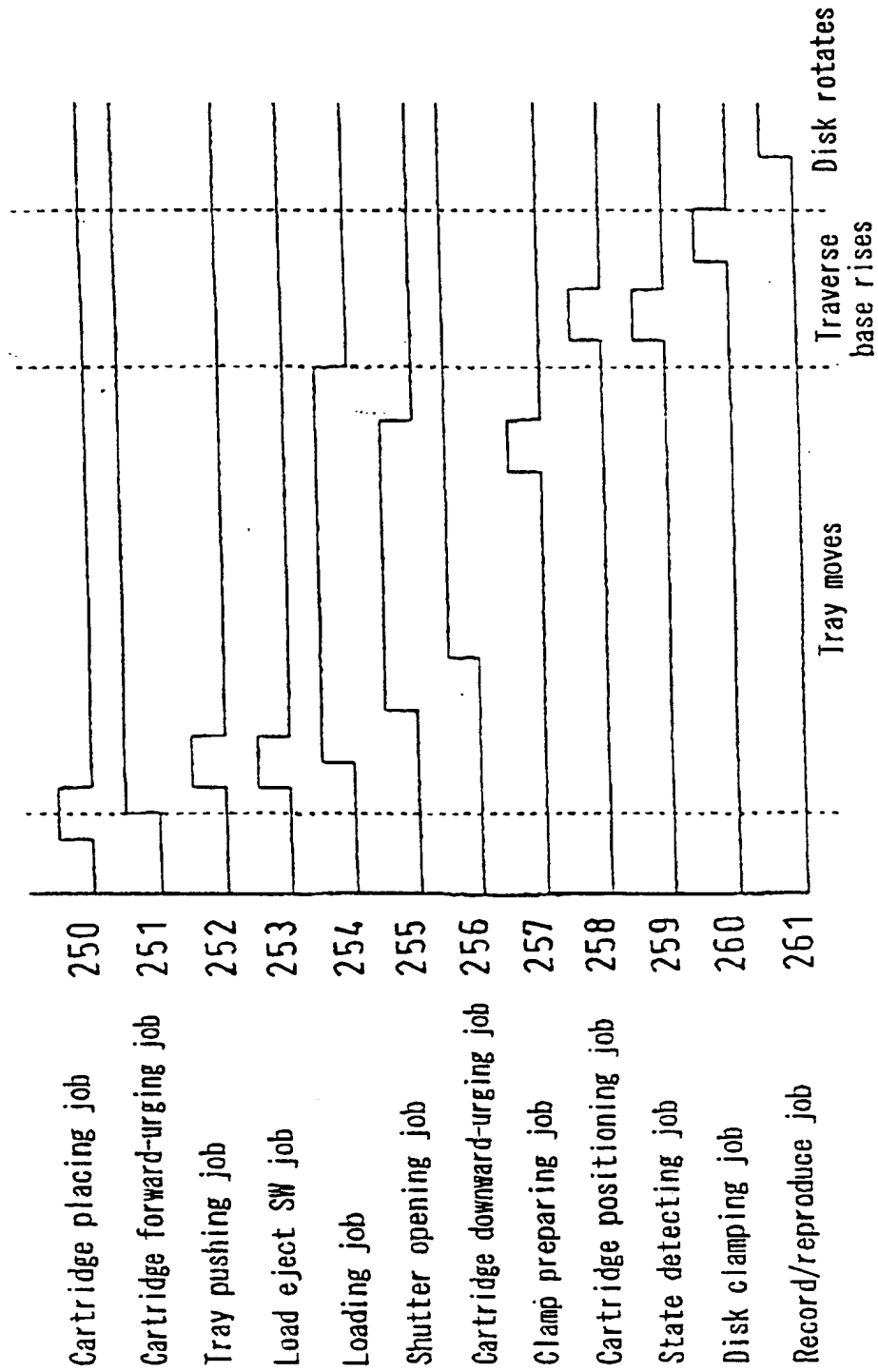
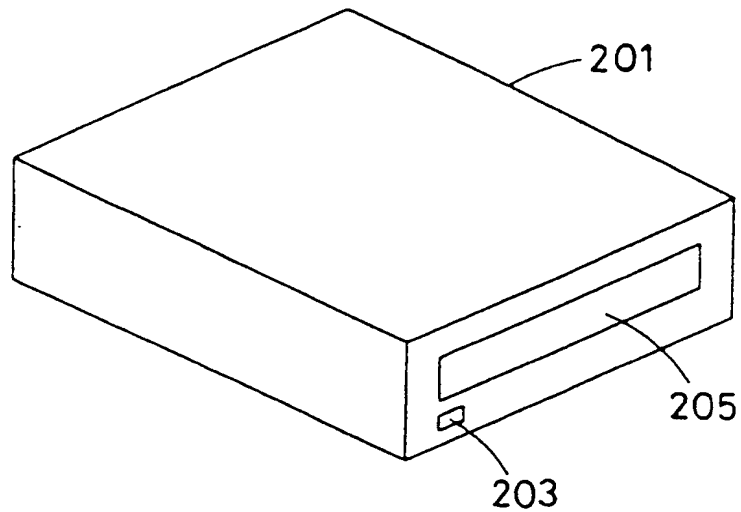


FIG. 6 8

(a)



(b)

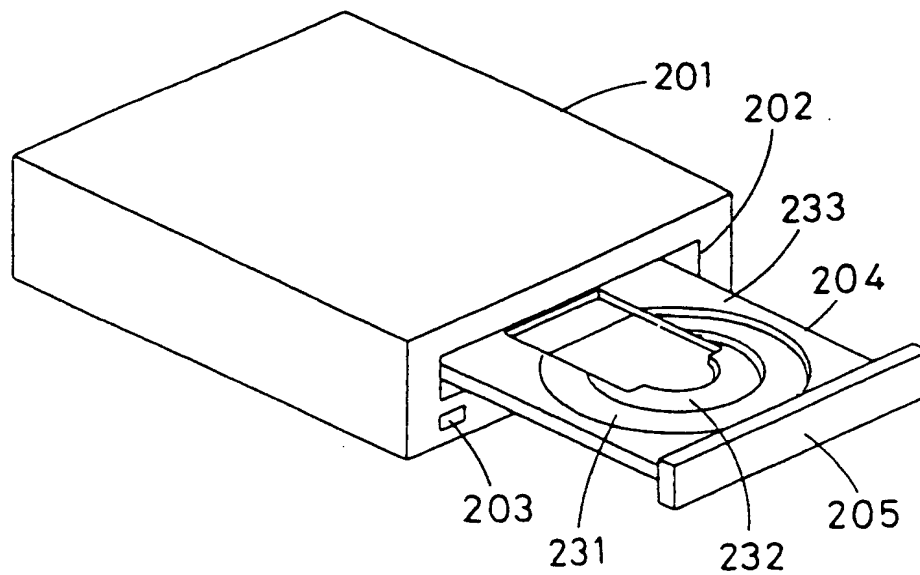


FIG. 6 9

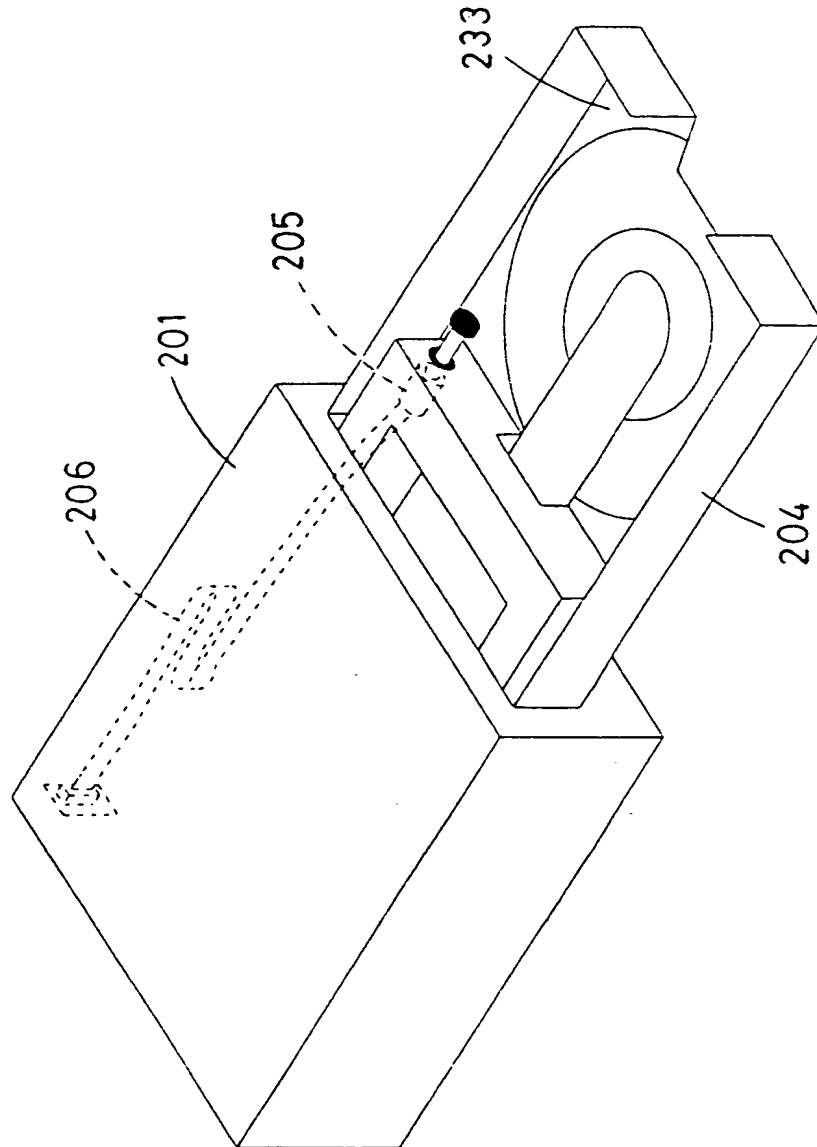
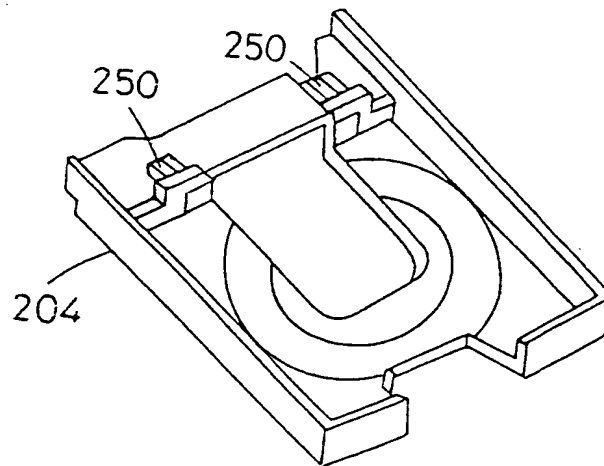
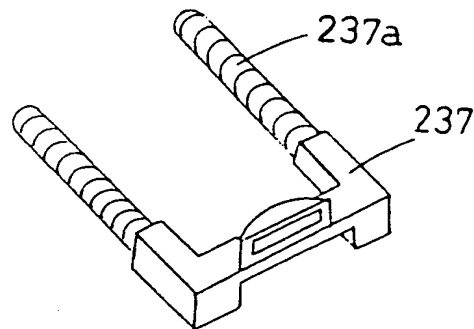
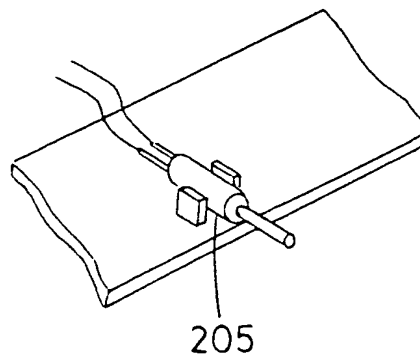


FIG. 7 O

(a)



(b)



**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☒ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.